

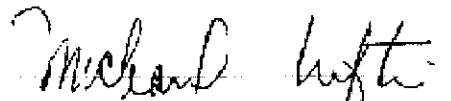


ANALYTICAL DATA REPORT

JMC Environmental Consultants
2109 Bridge Avenue
Building B
Point Pleasant, NJ 08742

Project Name: **ARSYNCO**
IAL Case Number: **E13-09604**

These data have been reviewed and accepted by:

A handwritten signature in black ink, appearing to read "Michael H. Lefon".

Michael H. Lefon, Ph.D.
Laboratory Director

This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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IAL is a NELAC New Jersey Certified Lab (14751) and maintains certification in Connecticut (PH-0899), New York (11402), Rhode Island (00126) Pennsylvania (68-00773) and in the Department of Navy IR CA Program

Sample Summary

IAL Case No.

E13-09604

Client JMC Environmental Consultants

Project ARSYNCO

Received On 9/30/2013@16:23

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Depth Top/Bottom</u>	<u>Sampling Time</u>	<u>Matrix</u>	<u># of Container</u>
09604-001	JJ-34R (4.0-5.0)	4/5	9/30/2013@10:20	Soil	1
09604-002	JJ-34R (5.0-6.0)	5/6	9/30/2013@10:21	Soil	1
09604-003	JJ-33E (6.0-7.0)	6/7	9/30/2013@11:06	Soil	1
09604-004	JJ-33R (6.0-7.0)	6/7	9/30/2013@11:45	Soil	1
09604-005	GG-37 (4.0-5.0)	4/5	9/30/2013@12:46	Soil	1
09604-006	HH-36W (4.0-5.0)	4/5	9/30/2013@13:15	Soil	1
09604-007	GG-36N (5.0-6.0)	5/6	9/30/2013@13:45	Soil	1
09604-008	HH-35 (4.0-5.0)	4/5	9/30/2013@14:07	Soil	1
09604-009	HH-35N (4.0-5.0)	4/5	9/30/2013@14:40	Soil	1
09604-010	FB-14	n/a	9/30/2013@14:50	Aqueous	2

INTEGRATED ANALYTICAL LABORATORIES, LLC.

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This report was finalized on October 16, 2013

* Methodology is included in the IAL Project Information Page

INTEGRATED ANALYTICAL LABORATORIES, LLC.

DEFINITIONS / QUALIFIERS

DATA QUALIFIERS

- B** Indicates the analyte was found in the associated method blank as well as in the sample.
It indicates probable laboratory contamination.
- C** Indicates analyte is a common laboratory contaminant.
- D** Indicated analyte was reported from diluted analysis.
- E** Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument for that specific analysis.
- J** Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL.

REPORTING DEFINITIONS

RL Reporting Limit. The RL is determined by the lowest concentration in the calibration curve. For most Wet Chemistry methods, the RL is defined by using the PQL.

MDL Method Detection Limit as determined according to 40CFR Part 136 Appendix B.

PQL Practical Quantitation Limit. Usually defined as a value 3-5 times the MDL.

ND Indicates analyte was analyzed for but not detected above the MDL.

DF Dilution Factor

LCS Laboratory Control Sample

LCS Laboratory Control Sample Duplicate

MS Matrix Spike

MSD Matrix Spike Duplicate

DUP Duplicate

CONFORMANCE / NON-CONFORMANCE SUMMARIES

INTEGRATED ANALYTICAL LABORATORIES, LLC.

CONFORMANCE / NONCONFORMANCE SUMMARY

Integrated Analytical Laboratories, LLC. received one (1) aqueous and nine (9) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-09604, Project: ARSYNCO) on September 30, 2013 for the analysis of:

(10) TCL PCB

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Chad Morgan
Reviewed by

10/15/13
Date

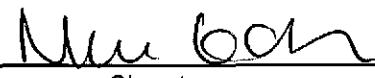
SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-09604

PCB By 8082A

Batch ID: 131002-09	Matrix: Soil
----------------------------	---------------------

- QC**
- Calibration Curve met QC criteria.
 - Surrogate Percent Recovery met QC criteria.
 - Method Blank met QC criteria.
 - LCS Percent Recovery met QC criteria.
 - MS/MSD Percent Recovery did not meet QC criteria. Due to matrix interference from the sample.
 - RPD between MS/MSD did not meet QC criteria. Due to matrix interference from the sample.
 - The following samples were cleaned up using method 3660B to remove sulfur: 001, 002, 003, 004, 005, 006, 007, 008
- E13-09604**
- All samples were extracted within holding time.
 - All samples were analyzed within holding time.
 - Retention Time Shift met QC criteria.
 - No dilution was performed for samples 09604 -001 through -008.

 10/4/2013
Signature E13-09604 Date 0004

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-09604

PCB By 8082A

Batch ID: 131002-07

Matrix: Soil

- | | |
|------------------|--|
| QC | <ul style="list-style-type: none">- Calibration Curve met QC criteria.- Surrogate Percent Recovery met QC criteria.- Method Blank met QC criteria.- LCS Percent Recovery met QC criteria.- MS/MSD Percent Recovery met QC criteria.- RPD between MS/MSD met QC criteria.- The following samples were cleaned up using method 3660B to remove sulfur: 009 |
| E13-09604 | <ul style="list-style-type: none">- All samples were extracted within holding time.- All samples were analyzed within holding time.- Retention Time Shift met QC criteria.- No dilution was performed for sample 09604 -009. |

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-09604

PCB By 8082A

Batch ID: 131007-20	Matrix: Aqueous
----------------------------	------------------------

- QC**
- Calibration Curve met QC criteria.
 - Surrogate Percent Recovery met QC criteria.
 - Method Blank met QC criteria.
 - LCS Percent Recovery met QC criteria.
 - MS/MSD Percent Recovery met QC criteria.
 - RPD between MS/MSD met QC criteria.
 - The following samples were cleaned up using method 3660B to remove sulfur: 010
 - The following samples were cleaned up using method 3665A: 010
- E13-09604**
- All samples were extracted within holding time.
 - All samples were analyzed within holding time.
 - Retention Time Shift met QC criteria.
 - No dilution was performed for sample 09604 -010.

RESULTS SUMMARY REPORT

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: JMC Environmental Consultants

Project: ARSYNCO

Lab Case No.: E13-09604

	Lab ID:	09604-010							
	Client ID:	FB-14							
	Matrix:	Aqueous							
	Sampled Date	9/30/13							
PARAMETER(Units)	Conc	Q	MDL						
PCB's (Units)	(ug/L-ppb)								
Aroclor-1016	ND	0.020							
Aroclor-1221	ND	0.020							
Aroclor-1232	ND	0.020							
Aroclor-1242	ND	0.020							
Aroclor-1248	ND	0.020							
Aroclor-1254	ND	0.020							
Aroclor-1260	ND	0.020							
Aroclor-1262	ND	0.020							
Aroclor-1268	ND	0.020							
PCBs	ND	0.020							
	Lab ID:	09604-001	09604-002	09604-003	09604-004				
	Client ID:	JJ-34R (4.0-5.0)	JJ-34R (5.0-6.0)	JJ-33E (6.0-7.0)	JJ-33R (6.0-7.0)				
	Depth:	4/5	5/6	6/7	6/7				
	Matrix:	Soil	Soil	Soil	Soil				
	Sampled Date	9/30/13	9/30/13	9/30/13	9/30/13				
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	(mg/Kg-ppm)		(mg/Kg-ppm)		(mg/Kg-ppm)		(mg/Kg-ppm)		
Aroclor-1016	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
Aroclor-1221	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
Aroclor-1232	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
Aroclor-1242	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
Aroclor-1248	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
Aroclor-1254	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
Aroclor-1260	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
Aroclor-1262	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
Aroclor-1268	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
PCBs	ND	0.018	ND	0.020	ND	0.017	ND	0.018	
	Lab ID:	09604-005	09604-006	09604-007	09604-008				
	Client ID:	GG-37 (4.0-5.0)	HH-36W (4.0-5.0)	GG-36N (5.0-6.0)	HH-35 (4.0-5.0)				
	Depth:	4/5	4/5	5/6	4/5				
	Matrix:	Soil	Soil	Soil	Soil				
	Sampled Date	9/30/13	9/30/13	9/30/13	9/30/13				
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	(mg/Kg-ppm)		(mg/Kg-ppm)		(mg/Kg-ppm)		(mg/Kg-ppm)		
Aroclor-1016	ND	0.019	ND	0.018	ND	0.017	ND	0.018	
Aroclor-1221	ND	0.019	ND	0.018	ND	0.017	ND	0.018	
Aroclor-1232	ND	0.019	ND	0.018	ND	0.017	ND	0.018	
Aroclor-1242	ND	0.019	ND	0.018	ND	0.017	ND	0.018	
Aroclor-1248	0.368	0.019	0.349	0.018	ND	0.017	1.93	0.018	
Aroclor-1254	ND	0.019	0.133	0.018	ND	0.017	0.487	0.018	
Aroclor-1260	ND	0.019	ND	0.018	ND	0.017	ND	0.018	
Aroclor-1262	ND	0.019	ND	0.018	ND	0.017	ND	0.018	
Aroclor-1268	ND	0.019	ND	0.018	ND	0.017	ND	0.018	
PCBs	0.368	0.019	0.482	0.018	ND	0.017	2.42	0.018	

ND = Analyzed for but Not Detected at the MDL

E13-09604 0008

INTEGRATED ANALYTICAL LABORATORIES, LLC.**SUMMARY REPORT****Client: JMC Environmental Consultants****Project: ARSYNCO****Lab Case No.: E13-09604**

Lab ID:	09604-009		
Client ID:	HH-35N (4.0-5.0)		
Depth:	4/5		
Matrix:	Soil		
Sampled Date:	9/30/13		
PARAMETER(Units)	Conc	Q	MDL
PCB's (Units)	(mg/Kg-ppm)		
Aroclor-1016	ND	0.020	
Aroclor-1221	ND	0.020	
Aroclor-1232	ND	0.020	
Aroclor-1242	ND	0.020	
Aroclor-1248	0.568	0.020	
Aroclor-1254	0.298	0.020	
Aroclor-1260	ND	0.020	
Aroclor-1262	ND	0.020	
Aroclor-1268	ND	0.020	
PCBs	0.866	0.020	

ND = Analyzed for but Not Detected at the MDL

ANALYTICAL RESULTS

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-001
Client ID: JJ-34R_4.
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/03/2013
Data file: R4575.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.94g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 23.0

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.044	0.018
Aroclor-1221	ND		0.044	0.018
Aroclor-1232	ND		0.044	0.018
Aroclor-1242	ND		0.044	0.018
Aroclor-1248	ND		0.044	0.018
Aroclor-1254	ND		0.044	0.018
Aroclor-1260	ND		0.044	0.018
Aroclor-1262	ND		0.044	0.018
Aroclor-1268	ND		0.044	0.018
PCBs	ND		0.044	0.018

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-002
Client ID: JJ-34R_(5.
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/03/2013
Data file: R4576.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.22g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 22.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.049	0.020
Aroclor-1221	ND		0.049	0.020
Aroclor-1232	ND		0.049	0.020
Aroclor-1242	ND		0.049	0.020
Aroclor-1248	ND		0.049	0.020
Aroclor-1254	ND		0.049	0.020
Aroclor-1260	ND		0.049	0.020
Aroclor-1262	ND		0.049	0.020
Aroclor-1268	ND		0.049	0.020
PCBs	ND		0.049	0.020

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-003
Client ID: JJ-33E_(6.
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/03/2013
Data file: R4577.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.84g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 18.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.042	0.017
Aroclor-1221	ND		0.042	0.017
Aroclor-1232	ND		0.042	0.017
Aroclor-1242	ND		0.042	0.017
Aroclor-1248	ND		0.042	0.017
Aroclor-1254	ND		0.042	0.017
Aroclor-1260	ND		0.042	0.017
Aroclor-1262	ND		0.042	0.017
Aroclor-1268	ND		0.042	0.017
PCBs	ND		0.042	0.017

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-004
Client ID: JJ-33R_(6.
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/03/2013
Data file: R4578.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.33g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 16.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.045	0.018
Aroclor-1221	ND		0.045	0.018
Aroclor-1232	ND		0.045	0.018
Aroclor-1242	ND		0.045	0.018
Aroclor-1248	ND		0.045	0.018
Aroclor-1254	ND		0.045	0.018
Aroclor-1260	ND		0.045	0.018
Aroclor-1262	ND		0.045	0.018
Aroclor-1268	ND		0.045	0.018
PCBs	ND		0.045	0.018

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-005
Client ID: GG-37_(4.0)
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/03/2013
Data file: R4579.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.45g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 21.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.047	0.019
Aroclor-1221	ND		0.047	0.019
Aroclor-1232	ND		0.047	0.019
Aroclor-1242	ND		0.047	0.019
Aroclor-1248	0.368		0.047	0.019
Aroclor-1254	ND		0.047	0.019
Aroclor-1260	ND		0.047	0.019
Aroclor-1262	ND		0.047	0.019
Aroclor-1268	ND		0.047	0.019
PCBs	0.368		0.047	0.019

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-006
Client ID: HH-36W_(4.
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/03/2013
Data file: R4580.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.83g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 22.3

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.044	0.018
Aroclor-1221	ND		0.044	0.018
Aroclor-1232	ND		0.044	0.018
Aroclor-1242	ND		0.044	0.018
Aroclor-1248	0.349		0.044	0.018
Aroclor-1254	0.133		0.044	0.018
Aroclor-1260	ND		0.044	0.018
Aroclor-1262	ND		0.044	0.018
Aroclor-1268	ND		0.044	0.018
PCBs	0.482		0.044	0.018

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-007
Client ID: GG-36N_5.
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/03/2013
Data file: R4581.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.81g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 20.0

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.043	0.017
Aroclor-1221	ND		0.043	0.017
Aroclor-1232	ND		0.043	0.017
Aroclor-1242	ND		0.043	0.017
Aroclor-1248	ND		0.043	0.017
Aroclor-1254	ND		0.043	0.017
Aroclor-1260	ND		0.043	0.017
Aroclor-1262	ND		0.043	0.017
Aroclor-1268	ND		0.043	0.017
PCBs	ND		0.043	0.017

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-008
Client ID: HH-35_(4.0)
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/02/2013
Data file: R4559.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.54g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 21.7

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.046	0.018
Aroclor-1221	ND		0.046	0.018
Aroclor-1232	ND		0.046	0.018
Aroclor-1242	ND		0.046	0.018
Aroclor-1248	1.93		0.046	0.018
Aroclor-1254	0.487		0.046	0.018
Aroclor-1260	ND		0.046	0.018
Aroclor-1262	ND		0.046	0.018
Aroclor-1268	ND		0.046	0.018
PCBs	2.42		0.046	0.018

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-009
Client ID: HH-35N_(4.
Date Received: 09/30/2013
Date Extracted: 10/02/2013
Date Analyzed: 10/03/2013
Data file: Y1973.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.31g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 24.1

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND	0.050	0.020	
Aroclor-1221	ND	0.050	0.020	
Aroclor-1232	ND	0.050	0.020	
Aroclor-1242	ND	0.050	0.020	
Aroclor-1248	0.568	0.050	0.020	
Aroclor-1254	0.298	0.050	0.020	
Aroclor-1260	ND	0.050	0.020	
Aroclor-1262	ND	0.050	0.020	
Aroclor-1268	ND	0.050	0.020	
PCBs	0.866	0.050	0.020	

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & great than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: 09604-010
Client ID: FB-14
Date Received: 09/30/2013
Date Extracted: 10/07/2013
Date Analyzed: 10/08/2013
Data file: R4677.D

GC Column: DB-5/DB1701P
Sample wt/vol: 1000ml
Matrix-Units: Aqueous- μ g/L (ppb)
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

PCB DATA

E13-09604 0021

PCB QC SUMMARY

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 10/02/2013

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS131002-09	SOIL	100		128		101		105	
PCB	LCSS131002-09	SOIL	101		118		101		114	
HH-35_(4.0)	09604-008	SOIL	103		102		102		111	
PCB	09604-008MS	SOIL	110		113		107		112	
PCB	09604-008MSD	SOIL	107		109		104		109	
Q-47(4.0-5)	09542-011	SOIL	108		125		106		109	
Q-47(5.0-6)	09542-012	SOIL	105		112		104		108	
Q-47N(2)(5)	09542-013	SOIL	111		113		110		112	
WC1/6	09485-001	SOIL	74		102		69		106	
S-1	09552-001	SOIL	96		109		94		109	
S-2	09552-002	SOIL	95		119		92		114	
S-3	09552-003	SOIL	95		135		91		127	
S-4	09552-004	SOIL	98		127		94		117	
S-5	09552-005	SOIL	100		111		97		106	
BS-8	09552-006	SOIL	96		109		93		107	
BS-9	09552-007	SOIL	97		112		94		106	
WC-1	09560-001	SOIL	89		114		88		100	
JJ-34R_(4.)	09604-001	SOIL	107		100		105		105	
JJ-34R_(5.)	09604-002	SOIL	109		108		107		108	
JJ-33E_(6.)	09604-003	SOIL	105		106		103		100	
JJ-33R	09604-004	SOIL	102		106		101		102	
GG-37_(4.0)	09604-005	SOIL	104		115		103		122	
HH-36W_(4.)	09604-006	SOIL	106		112		104		120	
GG-36N_(5.)	09604-007	SOIL	103		105		101		104	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil

30-150

Aqueous

30-150

30-150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 10/02/2013

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS131002-07	SOIL	94		83		98		97	
PCB	LCSS131002-07	SOIL	99		84		102		90	
13-165	09593-001	SOLID	93		83		97		90	
PCB	09593-001MS	SOLID	98		85		102		98	
PCB	09593-001MSD	SOLID	98		83		101		95	
HH-35N_(4.	09604-009	SOIL	102		81		105		95	
KK-36R_(0-	09643-001	SOIL	121		106		127		135	
KK-36R_(1.	09643-002	SOIL	123		105		134		144	
KK-37_(0-1	09643-003	SOIL	120		106		127		123	
KK-37_(1.0	09643-004	SOIL	124		120		135		130	
KK-37_(2.0	09643-005	SOIL	110		95		116		112	
KK-38_(0-1	09643-006	SOIL	122		121		133		140	
KK-38_(1.0	09643-007	SOIL	118		109		124		134	
KK-39_(0-1	09643-008	SOIL	117		103		123		130	
KK-39_(1.0	09643-009	SOIL	125		117		134		138	
S-3	09652-001	SOIL	95		77		99		93	
S-4	09652-002	SOIL	95		76		99		91	
S-5	09652-003	SOIL	98		82		102		99	
BS-8	09652-004	SOIL	96		83		100		102	
13-164	09610-001	SOIL	94		79		97		94	
13-163	09611-001	SOIL	94		82		98		97	
13-167-G4	09594-001	SOIL	95		84		98		99	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil

Aqueous

30-150

30-150

30-150

30-150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 09/24/2013

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKA130923-16	AQUEOUS	79		98		98		108	
FB091713	09228-008	AQUEOUS	71		92		88		99	
EX_WELL	09198-007	AQUEOUS	66		91		82		98	
PCB	09198-007MS	AQUEOUS	59		80		74		104	
PCB	09198-007MSD	AQUEOUS	64		83		80		100	
PCB	LCSA130923-16	AQUEOUS	67		90		83		105	

Surrogate QC Limits

Soil Aqueous

TCMX = Tetrachloro-m-xylene

30-150 30-150

DCB = Decachlorobiphenyl

30-150 30-150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 10/08/2013

	Lab		TCMX 1	DCB 1	TCMX 2	DCB 2				
Client ID	Sample ID	Matrix	% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKA131007-20	AQUEOUS	90	99	95	111				
PCB	LCSA131007-20	AQUEOUS	86	96	91	109				
FB-14	09604-010	AQUEOUS	86	97	91	111				
FB-15	09643-010	AQUEOUS	90	100	96	115				
FB-16	09749-026	AQUEOUS	83	98	88	105				
FB-17	09822-024	AQUEOUS	87	97	92	117				

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
M Matrix interference

SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID:

LCSS131002-09

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	546.4	-	109 40 - 140
Aroclor-1260	500.0	0.0	562.7	-	113 40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID:

LCSS131002-07

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	472.8	95	40 - 140
Aroclor-1260	500.0	0.0	429.7	86	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

AQUEOUS PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSA131007-20

Compound :	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	383.9	77	40 - 140
Aroclor-1260	500.0	0.0	435.0	87	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: 09604-008

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	NC	NC	40 - 140
Aroclor-1260	500.0	0.0	671.3	134	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	NC	NC	NC	50	40 - 140
Aroclor-1260	0.0	643.4	129	4	50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

RPD: 1 out of 2 outside limits

Spike Recovery: 2 out of 4 outside limits

SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: 09593-001

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	473.8	95	40 - 140
Aroclor-1260	500.0	0.0	455.4	91	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	490.5	98	3	50	40 - 140
Aroclor-1260	0.0	464.8	93	2	50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

AQUEOUS PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: 09198-007

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	412.2	82	40 - 140
Aroclor-1260	500.0	0.0	489.5	98	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	422.2	84	2	50	40 - 140
Aroclor-1260	0.0	486.2	97	1	50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

PCB METHOD BLANK SUMMARY

Lab File ID: R4557.D Instrument ID: GC-R

Date Extracted: 10/02/2013 Matrix: SOIL

Date Analyzed: 10/02/2013 Time Analyzed: 17:42

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSS131002-09	10/02/2013	17:59
HH-35_(4.0	09604-008	10/02/2013	18:17
PCB	09604-008MS	10/02/2013	18:34
PCB	09604-008MSD	10/02/2013	18:51
Q-47(4.0-5	09542-011	10/02/2013	19:09
Q-47(5.0-6	09542-012	10/02/2013	19:26
Q-47N(2)(5	09542-013	10/02/2013	19:44
WC1/6	09485-001	10/02/2013	21:28
S-1	09552-001	10/02/2013	21:46
S-2	09552-002	10/02/2013	22:03
S-3	09552-003	10/02/2013	22:21
S-4	09552-004	10/02/2013	22:38
S-5	09552-005	10/02/2013	22:55
BS-8	09552-006	10/02/2013	23:13
BS-9	09552-007	10/02/2013	23:30
WC-1	09560-001	10/02/2013	23:48
JJ-34R_(4.	09604-001	10/03/2013	00:05
JJ-34R_(5.	09604-002	10/03/2013	00:23
JJ-33E_(6.	09604-003	10/03/2013	00:40
JJ-33R	09604-004	10/03/2013	00:57
GG-37_(4.0	09604-005	10/03/2013	01:15
HH-36W_(4.	09604-006	10/03/2013	01:32
GG-36N_(5.	09604-007	10/03/2013	01:50

PCB METHOD BLANK SUMMARY

Lab File ID: Y1967.D Instrument ID: GC-Y

Date Extracted: 10/02/2013 Matrix: SOIL

Date Analyzed: 10/02/2013 Time Analyzed: 22:28

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSS131002-07	10/02/2013	22:45
13-165	09593-001	10/02/2013	23:03
PCB	09593-001MS	10/02/2013	23:20
PCB	09593-001MSD	10/02/2013	23:38
HH-35N_(4.	09604-009	10/03/2013	01:22
KK-36R_(0-	09643-001	10/03/2013	01:40
KK-36R_(1.	09643-002	10/03/2013	01:57
KK-37_(0-1	09643-003	10/03/2013	02:14
KK-37_(1.0	09643-004	10/03/2013	02:32
KK-37_(2.0	09643-005	10/03/2013	02:49
KK-38_(0-1	09643-006	10/03/2013	03:07
KK-38_(1.0	09643-007	10/03/2013	03:24
KK-39_(0-1	09643-008	10/03/2013	03:41
KK-39_(1.0	09643-009	10/03/2013	03:59
S-3	09652-001	10/03/2013	04:16
S-4	09652-002	10/03/2013	04:33
S-5	09652-003	10/03/2013	04:51
BS-8	09652-004	10/03/2013	05:08
13-164	09610-001	10/03/2013	05:26
13-163	09611-001	10/03/2013	05:43
13-167-G4	09594-001	10/03/2013	06:00

PCB METHOD BLANK SUMMARY

Lab File ID: R4385.D

Instrument ID: GC-R

Date Extracted: 09/23/2013

Matrix: AQUEOUS

Date Analyzed: 09/24/2013

Time Analyzed: 16:40

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
FB091713	09228-008	09/24/2013	16:58
EX_WELL	09198-007	09/24/2013	17:15
PCB	09198-007MS	09/24/2013	17:33
PCB	09198-007MSD	09/24/2013	17:50
PCB	LCSA130923-16	09/24/2013	18:08

PCB METHOD BLANK SUMMARY

Lab File ID: R4675.D

Instrument ID: GC-R

Date Extracted: 10/07/2013

Matrix: AQUEOUS

Date Analyzed: 10/08/2013

Time Analyzed: 12:31

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSA131007-20	10/08/2013	12:49
FB-14	09604-010	10/08/2013	13:06
FB-15	09643-010	10/08/2013	13:24
FB-16	09749-026	10/08/2013	13:41
FB-17	09822-024	10/08/2013	13:59

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed:

09/25/2013

Instrument ID:

GC-R

GC Column (1st):

DB-5

Data File:

R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.20	3.20	3.20	3.20	3.20	3.20	3.13	3.27
Aroclor-1016 {2}	4.03	4.03	4.03	4.03	4.03	4.03	3.96	4.10
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.59	4.59	4.52	4.66
Aroclor-1016 {4}	5.10	5.10	5.09	5.09	5.09	5.09	5.02	5.16
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.11				2.04	2.18
Aroclor-1221 {2}			3.00				2.93	3.07
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.20				3.13	3.27
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.20				3.13	3.27
Aroclor-1232 {2}			4.03				3.96	4.10
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.03				3.96	4.10
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.28				6.21	6.35
Aroclor-1248			4.44				4.36	4.52
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				6.75	6.91
Aroclor-1254 {3}			7.00				6.91	7.09
Aroclor-1254 {4}			7.45				7.36	7.54
Aroclor-1254 {5}			8.29				8.20	8.38
Aroclor-1260	8.29	8.29	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.97	8.97	8.97	8.96	8.97	8.07	9.87
Aroclor-1260 {3}	9.45	9.45	9.45	9.45	9.45	9.45	8.55	10.35
Aroclor-1260 {4}	9.94	9.94	9.94	9.94	9.93	9.94	9.04	10.84
Aroclor-1260 {5}	11.01	11.01	11.00	11.00	11.00	11.00	10.10	11.90

AROCLOL INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: **R4398.D** **R4397.D** **R4396.D** **R4395.D** **R4394.D**

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	238956	238426	221016	197053	206327	220356	8.53
Aroclor-1016 {2}	322859	323495	301808	271511	285729	301080	7.59
Aroclor-1016 {3}	416139	415483	390316	353118	373529	389717	6.98
Aroclor-1016 {4}	184507	199920	185895	164765	172191	181456	7.47
Aroclor-1016 {5}	322867	320546	311488	282232	300555	307538	5.41
Aroclor-1221			114432				
Aroclor-1221 {2}			175472				
Aroclor-1221 {3}			116606				
Aroclor-1221 {4}			409677				
Aroclor-1221 {5}			91214				
Aroclor-1232			299110				
Aroclor-1232 {2}			173564				
Aroclor-1232 {3}			151425				
Aroclor-1232 {4}			169583				
Aroclor-1232 {5}			215217				
Aroclor-1242			271243				
Aroclor-1242 {2}			171172				
Aroclor-1242 {3}			243002				
Aroclor-1242 {4}			368896				
Aroclor-1242 {5}			334402				
Aroclor-1248			645139				
Aroclor-1248 {2}			371041				
Aroclor-1248 {3}			488705				
Aroclor-1248 {4}			791653				
Aroclor-1248 {5}			569723				
Aroclor-1254			752030				
Aroclor-1254 {2}			480900				
Aroclor-1254 {3}			903710				
Aroclor-1254 {4}			935745				
Aroclor-1254 {5}			852809				
Aroclor-1260	809353	853975	887981	812983	880858	849030	4.34
Aroclor-1260 {2}	404014	408219	409739	376288	404609	400574	3.44
Aroclor-1260 {3}	1040454	1052855	1056746	954425	1033313	1027559	4.08
Aroclor-1260 {4}	489784	509425	533411	482655	530867	509228	4.54
Aroclor-1260 {5}	243012	247120	249016	215605	232018	237354	5.83

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R
GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.37	3.37	3.37	3.37	3.37	3.37	3.30	3.44
Aroclor-1016 {2}	3.94	3.93	3.94	3.94	3.94	3.94	3.87	4.01
Aroclor-1016 {3}	4.65	4.65	4.65	4.65	4.65	4.65	4.58	4.72
Aroclor-1016 {4}	4.85	4.85	4.85	4.85	4.85	4.85	4.78	4.92
Aroclor-1016 {5}	5.02	5.02	5.02	5.02	5.02	5.02	4.95	5.09
Aroclor-1221			2.16				2.09	2.23
Aroclor-1221 {2}			3.07				3.00	3.14
Aroclor-1221 {3}			3.29				3.22	3.36
Aroclor-1221 {4}			3.38				3.31	3.45
Aroclor-1221 {5}			4.66				4.59	4.73
Aroclor-1232			3.37				3.30	3.44
Aroclor-1232 {2}			4.30				4.23	4.37
Aroclor-1232 {3}			4.85				4.78	4.92
Aroclor-1232 {4}			5.02				4.95	5.09
Aroclor-1232 {5}			5.60				5.53	5.67
Aroclor-1242			4.30				4.23	4.37
Aroclor-1242 {2}			5.02				4.95	5.09
Aroclor-1242 {3}			5.60				5.53	5.67
Aroclor-1242 {4}			5.76				5.69	5.83
Aroclor-1242 {5}			6.29				6.22	6.36
Aroclor-1248			4.65				4.57	4.73
Aroclor-1248 {2}			5.22				5.14	5.30
Aroclor-1248 {3}			5.60				5.52	5.68
Aroclor-1248 {4}			5.76				5.68	5.84
Aroclor-1248 {5}			6.10				6.02	6.18
Aroclor-1254			6.59				6.51	6.67
Aroclor-1254 {2}			7.16				7.08	7.24
Aroclor-1254 {3}			7.59				7.50	7.68
Aroclor-1254 {4}			7.78				7.69	7.87
Aroclor-1254 {5}			8.59				8.50	8.68
Aroclor-1260	7.34	7.34	7.34	7.34	7.34	7.34	6.44	8.24
Aroclor-1260 {2}	7.59	7.59	7.59	7.59	7.59	7.59	6.69	8.49
Aroclor-1260 {3}	9.18	9.18	9.18	9.18	9.18	9.18	8.28	10.08
Aroclor-1260 {4}	9.69	9.69	9.69	9.69	9.69	9.69	8.79	10.59
Aroclor-1260 {5}	10.27	10.28	10.27	10.27	10.27	10.27	9.37	11.17

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed:

09/25/2013

Instrument ID:

GC-R

GC Column (2nd):

DB-1701P

Data File:

R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	463482	443481	394672	349156	363575	402873	12.30
Aroclor-1016 {2}	972946	914219	800550	715484	745062	829652	13.30
Aroclor-1016 {3}	2003226	1895012	1794128	1625557	1725798	1808744	8.10
Aroclor-1016 {4}	874602	819805	758782	674981	705886	766811	10.64
Aroclor-1016 {5}	649705	630090	577596	516964	546780	584227	9.52
Aroclor-1221			205830				
Aroclor-1221 {2}			317677				
Aroclor-1221 {3}			197191				
Aroclor-1221 {4}			731933				
Aroclor-1221 {5}			137633				
Aroclor-1232			537368				
Aroclor-1232 {2}			201363				
Aroclor-1232 {3}			443054				
Aroclor-1232 {4}			336131				
Aroclor-1232 {5}			472241				
Aroclor-1242			308614				
Aroclor-1242 {2}			520959				
Aroclor-1242 {3}			687939				
Aroclor-1242 {4}			570896				
Aroclor-1242 {5}			1110996				
Aroclor-1248			1196272				
Aroclor-1248 {2}			1787378				
Aroclor-1248 {3}			1279375				
Aroclor-1248 {4}			1156522				
Aroclor-1248 {5}			630416				
Aroclor-1254			1449464				
Aroclor-1254 {2}			1140319				
Aroclor-1254 {3}			744926				
Aroclor-1254 {4}			1087519				
Aroclor-1254 {5}			1595667				
Aroclor-1260	772842	717629	667601	596248	636006	678065	10.20
Aroclor-1260 {2}	1203303	1137574	1003928	894435	938753	1035599	12.67
Aroclor-1260 {3}	918251	908290	856575	776950	839956	860004	6.64
Aroclor-1260 {4}	1869490	1994218	1907750	1702352	1827485	1860259	5.78
Aroclor-1260 {5}	1341947	1427312	1364592	1211105	1295946	1328180	6.08
Average %RSD							9.52

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.66				8.54	8.78
Aroclor-1262 {2}			9.45				9.33	9.57
Aroclor-1262 {3}			10.08				9.96	10.20
Aroclor-1262 {4}			10.17				10.05	10.29
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.16				10.04	10.28
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.17				9.05	9.29
Aroclor-1262 {2}			9.69				9.57	9.81
Aroclor-1262 {3}			10.18				10.06	10.30
Aroclor-1262 {4}			10.27				10.15	10.39
Aroclor-1262 {5}			10.86				10.74	10.98
Aroclor-1268			10.18				10.06	10.30
Aroclor-1268 {2}			10.26				10.14	10.38
Aroclor-1268 {3}			10.50				10.38	10.62
Aroclor-1268 {4}			10.65				10.53	10.77
Aroclor-1268 {5}			11.73				11.61	11.85

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013 Instrument ID: GC-R
 GC Column (1st): DB-5

Data File: R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			412256				
Aroclor-1262 {2}			1603317				
Aroclor-1262 {3}			600064				
Aroclor-1262 {4}			726266				
Aroclor-1262 {5}			562568				
Aroclor-1268			1631126				
Aroclor-1268 {2}			1792929				
Aroclor-1268 {3}			1398759				
Aroclor-1268 {4}			384285				
Aroclor-1268 {5}			4463165				

GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1324749				
Aroclor-1262 {2}			3035817				
Aroclor-1262 {3}			967719				
Aroclor-1262 {4}			2127918				
Aroclor-1262 {5}			426507				
Aroclor-1268			2933662				
Aroclor-1268 {2}			3178941				
Aroclor-1268 {3}			2495408				
Aroclor-1268 {4}			657283				
Aroclor-1268 {5}			7870801				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/02/2013

Instrument ID: GC-R

Data File: R4556.D

GC Column (1st):

DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	220356	220021	0.15
Aroclor-1016 {2}	4.04	3.96	4.10	301080	295820	1.75
Aroclor-1016 {3}	4.59	4.52	4.66	389717	381020	2.23
Aroclor-1016 {4}	5.10	5.02	5.16	181456	181229	0.13
Aroclor-1016 {5}	5.49	5.42	5.56	307538	296123	3.71
Aroclor-1260	8.29	7.39	9.19	849030	813355	4.20
Aroclor-1260 {2}	8.97	8.07	9.87	400574	368885	7.91
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	964002	6.19
Aroclor-1260 {4}	9.93	9.04	10.84	509228	501139	1.59
Aroclor-1260 {5}	11.00	10.10	11.90	237354	224394	5.46

Data File: R4556.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.30	3.44	402873	400369	0.62
Aroclor-1016 {2}	3.94	3.87	4.01	829652	799968	3.58
Aroclor-1016 {3}	4.66	4.58	4.72	1808744	1791683	0.94
Aroclor-1016 {4}	4.86	4.78	4.92	766811	729520	4.86
Aroclor-1016 {5}	5.03	4.95	5.09	584227	562116	3.78
Aroclor-1260	7.35	6.44	8.24	678065	609094	10.17
Aroclor-1260 {2}	7.60	6.69	8.49	1035599	897136	13.37
Aroclor-1260 {3}	9.18	8.28	10.08	860004	775165	9.86
Aroclor-1260 {4}	9.69	8.79	10.59	1860259	1748001	6.03
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1284712	3.27

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/02/2013 Instrument ID: GC-R

Data File: R4565.D GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	220356	219988	0.17
Aroclor-1016 {2}	4.04	3.96	4.10	301080	297589	1.16
Aroclor-1016 {3}	4.59	4.52	4.66	389717	383948	1.48
Aroclor-1016 {4}	5.10	5.02	5.16	181456	184015	1.41
Aroclor-1016 {5}	5.49	5.42	5.56	307538	301579	1.94
Aroclor-1260	8.29	7.39	9.19	849030	870052	2.48
Aroclor-1260 {2}	8.97	8.07	9.87	400574	391586	2.24
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	1057134	2.88
Aroclor-1260 {4}	9.93	9.04	10.84	509228	543354	6.70
Aroclor-1260 {5}	11.00	10.10	11.90	237354	249141	4.97

Data File: R4565.C GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	402873	397878	1.24
Aroclor-1016 {2}	3.93	3.87	4.01	829652	799576	3.63
Aroclor-1016 {3}	4.65	4.58	4.72	1808744	1796276	0.69
Aroclor-1016 {4}	4.85	4.78	4.92	766811	739697	3.54
Aroclor-1016 {5}	5.02	4.95	5.09	584227	568579	2.68
Aroclor-1260	7.34	6.44	8.24	678065	654794	3.43
Aroclor-1260 {2}	7.59	6.69	8.49	1035599	970469	6.29
Aroclor-1260 {3}	9.17	8.28	10.08	860004	839157	2.42
Aroclor-1260 {4}	9.68	8.79	10.59	1860259	1919712	3.20
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1386737	4.41

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/03/2013

Instrument ID: GC-R

Data File: R4582.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	220356	220733	0.17
Aroclor-1016 {2}	4.04	3.96	4.10	301080	298021	1.02
Aroclor-1016 {3}	4.59	4.52	4.66	389717	384572	1.32
Aroclor-1016 {4}	5.10	5.02	5.16	181456	186290	2.66
Aroclor-1016 {5}	5.49	5.42	5.56	307538	302782	1.55
Aroclor-1260	8.29	7.39	9.19	849030	872753	2.79
Aroclor-1260 {2}	8.97	8.07	9.87	400574	394287	1.57
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	1058694	3.03
Aroclor-1260 {4}	9.93	9.04	10.84	509228	542407	6.52
Aroclor-1260 {5}	11.00	10.10	11.90	237354	241995	1.96

Data File: R4582.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	402873	397721	1.28
Aroclor-1016 {2}	3.93	3.87	4.01	829652	796868	3.95
Aroclor-1016 {3}	4.65	4.58	4.72	1808744	1789770	1.05
Aroclor-1016 {4}	4.85	4.78	4.92	766811	737546	3.82
Aroclor-1016 {5}	5.02	4.95	5.09	584227	566973	2.95
Aroclor-1260	7.34	6.44	8.24	678065	745428	9.93
Aroclor-1260 {2}	7.59	6.69	8.49	1035599	970629	6.27
Aroclor-1260 {3}	9.17	8.28	10.08	860004	839584	2.37
Aroclor-1260 {4}	9.68	8.79	10.59	1860259	1907985	2.57
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1380937	3.97

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.23	3.23	3.23	3.23	3.23	3.23	3.16	3.30
Aroclor-1016 {2}	4.05	4.05	4.05	4.05	4.05	4.05	3.98	4.12
Aroclor-1016 {3}	4.60	4.60	4.60	4.60	4.60	4.60	4.53	4.67
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.02				2.95	3.09
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.22				3.15	3.29
Aroclor-1221 {5}			3.81				3.74	3.88
Aroclor-1232			3.23				3.16	3.30
Aroclor-1232 {2}			4.05				3.98	4.12
Aroclor-1232 {3}			4.71				4.64	4.78
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.05				3.98	4.12
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			5.99				5.92	6.06
Aroclor-1242 {5}			6.26				6.19	6.33
Aroclor-1248			4.45				4.37	4.53
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			5.99				5.91	6.07
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.82				6.74	6.90
Aroclor-1254 {3}			6.99				6.90	7.08
Aroclor-1254 {4}			7.42				7.33	7.51
Aroclor-1254 {5}			8.26				8.17	8.35
Aroclor-1260	8.26	8.26	8.26	8.26	8.26	8.26	7.36	9.16
Aroclor-1260 {2}	8.94	8.94	8.94	8.94	8.93	8.94	8.04	9.84
Aroclor-1260 {3}	9.41	9.41	9.41	9.41	9.41	9.41	8.51	10.31
Aroclor-1260 {4}	9.89	9.89	9.89	9.89	9.89	9.89	8.99	10.79
Aroclor-1260 {5}	10.95	10.95	10.95	10.95	10.95	10.95	10.05	11.85

AROCLOL INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013 Instrument ID: GC-Y
 GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	464323	441679	382895	349177	333589	394332	14.46
Aroclor-1016 {2}	631313	643566	521731	477189	458454	546451	15.79
Aroclor-1016 {3}	806143	774449	662509	606621	589177	687780	14.26
Aroclor-1016 {4}	363540	363516	332688	305606	289774	331025	10.09
Aroclor-1016 {5}	628860	642038	551930	503774	487757	562872	12.52
Aroclor-1221			199877				
Aroclor-1221 {2}			313557				
Aroclor-1221 {3}			198732				
Aroclor-1221 {4}			681302				
Aroclor-1221 {5}			164392				
Aroclor-1232			508390				
Aroclor-1232 {2}			304333				
Aroclor-1232 {3}			272852				
Aroclor-1232 {4}			292921				
Aroclor-1232 {5}			379208				
Aroclor-1242			445331				
Aroclor-1242 {2}			289404				
Aroclor-1242 {3}			394283				
Aroclor-1242 {4}			595594				
Aroclor-1242 {5}			525307				
Aroclor-1248			1072563				
Aroclor-1248 {2}			618287				
Aroclor-1248 {3}			795414				
Aroclor-1248 {4}			1263310				
Aroclor-1248 {5}			998553				
Aroclor-1254			1250957				
Aroclor-1254 {2}			821044				
Aroclor-1254 {3}			1480779				
Aroclor-1254 {4}			1606933				
Aroclor-1254 {5}			1429697				
Aroclor-1260	1799563	1887490	1561779	1407648	1377152	1606726	14.27
Aroclor-1260 {2}	884011	896189	732678	641350	641368	759119	16.51
Aroclor-1260 {3}	2064481	2110924	1815054	1604501	1536563	1826305	14.25
Aroclor-1260 {4}	982911	1147466	964107	838195	828743	952284	13.64
Aroclor-1260 {5}	415694	477377	462681	369882	339327	412992	14.28
Average %RSD						14.01	

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013 Instrument ID: GC-Y
 GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.76	3.76	3.76	3.76	3.76	3.76	3.69	3.83
Aroclor-1016 {2}	4.36	4.36	4.36	4.36	4.36	4.36	4.29	4.43
Aroclor-1016 {3}	5.11	5.11	5.11	5.11	5.11	5.11	5.04	5.18
Aroclor-1016 {4}	5.32	5.32	5.32	5.32	5.32	5.32	5.25	5.39
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.44				2.37	2.51
Aroclor-1221 {2}			3.44				3.37	3.51
Aroclor-1221 {3}			3.67				3.60	3.74
Aroclor-1221 {4}			3.77				3.70	3.84
Aroclor-1221 {5}			5.11				5.04	5.18
Aroclor-1232			3.76				3.69	3.83
Aroclor-1232 {2}			4.74				4.67	4.81
Aroclor-1232 {3}			5.32				5.25	5.39
Aroclor-1232 {4}			5.49				5.42	5.56
Aroclor-1232 {5}			6.09				6.02	6.16
Aroclor-1242			4.74				4.67	4.81
Aroclor-1242 {2}			5.49				5.42	5.56
Aroclor-1242 {3}			6.09				6.02	6.16
Aroclor-1242 {4}			6.24				6.17	6.31
Aroclor-1242 {5}			6.79				6.72	6.86
Aroclor-1248			5.11				5.03	5.19
Aroclor-1248 {2}			5.69				5.61	5.77
Aroclor-1248 {3}			6.09				6.01	6.17
Aroclor-1248 {4}			6.24				6.16	6.32
Aroclor-1248 {5}			6.59				6.51	6.67
Aroclor-1254			7.09				7.01	7.17
Aroclor-1254 {2}			7.67				7.59	7.75
Aroclor-1254 {3}			8.29				8.20	8.38
Aroclor-1254 {4}			8.51				8.42	8.60
Aroclor-1254 {5}			9.10				9.01	9.19
Aroclor-1260	7.85	7.85	7.85	7.85	7.85	7.85	6.95	8.75
Aroclor-1260 {2}	8.11	8.11	8.11	8.11	8.11	8.11	7.21	9.01
Aroclor-1260 {3}	9.70	9.70	9.70	9.70	9.70	9.70	8.80	10.60
Aroclor-1260 {4}	10.20	10.20	10.20	10.20	10.20	10.20	9.30	11.10
Aroclor-1260 {5}	10.79	10.79	10.79	10.79	10.79	10.79	9.89	11.69

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y
GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	CALIBRATION FACTORS						%RSD
	10	50	500	1000	2000	MEAN	
Aroclor-1016	840261	856585	714298	646843	597927	731183	15.71
Aroclor-1016 {2}	1833596	1816776	1547682	1378645	1353928	1586125	14.54
Aroclor-1016 {3}	4371716	4236799	3569561	3258945	3150851	3717574	15.04
Aroclor-1016 {4}	1871668	1849704	1597815	1454198	1410182	1636714	13.20
Aroclor-1016 {5}	1442767	1421476	1238979	1138128	1115123	1271295	12.13
Aroclor-1221			340703				
Aroclor-1221 {2}			617655				
Aroclor-1221 {3}			417322				
Aroclor-1221 {4}			1522237				
Aroclor-1221 {5}			291032				
Aroclor-1232			973678				
Aroclor-1232 {2}			425526				
Aroclor-1232 {3}			940006				
Aroclor-1232 {4}			735287				
Aroclor-1232 {5}			1002709				
Aroclor-1242			611221				
Aroclor-1242 {2}			1032956				
Aroclor-1242 {3}			1271440				
Aroclor-1242 {4}			1106793				
Aroclor-1242 {5}			2184386				
Aroclor-1248			2396754				
Aroclor-1248 {2}			3539345				
Aroclor-1248 {3}			2550731				
Aroclor-1248 {4}			2230079				
Aroclor-1248 {5}			1294923				
Aroclor-1254			2883717				
Aroclor-1254 {2}			2180898				
Aroclor-1254 {3}			1865030				
Aroclor-1254 {4}			1138169				
Aroclor-1254 {5}			2980480				
Aroclor-1260	1380266	1597791	1348190	1285120	1250722	1372418	9.90
Aroclor-1260 {2}	2170235	2320146	1904498	1826388	1764884	1997230	11.90
Aroclor-1260 {3}	1830758	1876902	1742155	1590179	1579596	1723918	7.88
Aroclor-1260 {4}	3775292	4234437	3909868	3531301	3570473	3804274	7.51
Aroclor-1260 {5}	2569926	3071676	2828424	2567649	2559367	2719408	8.36
Average %RSD							11.62

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.55				8.43	8.67
Aroclor-1262 {2}			9.41				9.29	9.53
Aroclor-1262 {3}			10.04				9.92	10.16
Aroclor-1262 {4}			10.13				10.01	10.25
Aroclor-1262 {5}			10.95				10.83	11.07
Aroclor-1268			10.04				9.92	10.16
Aroclor-1268 {2}			10.12				10.00	10.24
Aroclor-1268 {3}			10.59				10.47	10.71
Aroclor-1268 {4}			11.55				11.43	11.67
Aroclor-1268 {5}			12.04				11.92	12.16

GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.70				9.58	9.82
Aroclor-1262 {2}			10.20				10.08	10.32
Aroclor-1262 {3}			10.70				10.58	10.82
Aroclor-1262 {4}			10.79				10.67	10.91
Aroclor-1262 {5}			11.39				11.27	11.51
Aroclor-1268			10.70				10.58	10.82
Aroclor-1268 {2}			10.78				10.66	10.90
Aroclor-1268 {3}			11.04				10.92	11.16
Aroclor-1268 {4}			12.25				12.13	12.37
Aroclor-1268 {5}			12.48				12.36	12.60

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed:

09/25/2013

Instrument ID:

GC-Y

GC Column (1st):

DB-5

Data File:

Y1850.D

Y1849.D

Y1848.D

Y1847.D

Y1846.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1292916				
Aroclor-1262 {2}			2408782				
Aroclor-1262 {3}			950819				
Aroclor-1262 {4}			1039798				
Aroclor-1262 {5}			871465				
Aroclor-1268			2329028				
Aroclor-1268 {2}			2439244				
Aroclor-1268 {3}			1975765				
Aroclor-1268 {4}			5596247				
Aroclor-1268 {5}			3165388				

GC Column (2nd): DB-1701P

Data File:

Y1850.C

Y1849.C

Y1848.C

Y1847.C

Y1846.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			2532606				
Aroclor-1262 {2}			5716193				
Aroclor-1262 {3}			2058727				
Aroclor-1262 {4}			4020600				
Aroclor-1262 {5}			980018				
Aroclor-1268			5861773				
Aroclor-1268 {2}			6124826				
Aroclor-1268 {3}			5049165				
Aroclor-1268 {4}			14509441				
Aroclor-1268 {5}			8286384				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/02/2013

Instrument ID:

GC-Y

Data File: Y1966.D

GC Column (1st):

DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	354230	10.17
Aroclor-1016 {2}	4.05	3.98	4.12	546451	488569	10.59
Aroclor-1016 {3}	4.60	4.53	4.67	687780	612902	10.89
Aroclor-1016 {4}	5.10	5.03	5.17	331025	317499	4.09
Aroclor-1016 {5}	5.50	5.42	5.56	562872	502661	10.70
Aroclor-1260	8.26	7.36	9.16	1606726	1385255	13.78
Aroclor-1260 {2}	8.94	8.04	9.84	759119	627578	17.33
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1506840	17.49
Aroclor-1260 {4}	9.89	8.99	10.79	952284	813205	14.60
Aroclor-1260 {5}	10.95	10.05	11.85	412992	346836	16.02

Data File: Y1966.C

GC Column (2nd):

DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	815619	11.55
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1598667	0.79
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3640273	2.08
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1555787	4.94
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1230103	3.24
Aroclor-1260	7.85	6.95	8.75	1372418	1372402	0.00
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1948181	2.46
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1592933	7.60
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3529983	7.21
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2507711	7.78

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed:

10/03/2013

Instrument ID:

GC-Y

Data File:

Y1972.D

GC Column (1st):

DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	358992	8.96
Aroclor-1016 {2}	4.05	3.98	4.12	546451	501485	8.23
Aroclor-1016 {3}	4.60	4.53	4.67	687780	627000	8.84
Aroclor-1016 {4}	5.10	5.03	5.17	331025	327412	1.09
Aroclor-1016 {5}	5.50	5.42	5.56	562872	518916	7.81
Aroclor-1260	8.26	7.36	9.16	1606726	1455263	9.43
Aroclor-1260 {2}	8.94	8.04	9.84	759119	663400	12.61
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1633302	10.57
Aroclor-1260 {4}	9.89	8.99	10.79	952284	859848	9.71
Aroclor-1260 {5}	10.95	10.05	11.85	412992	353080	14.51

Data File:

Y1972.C

GC Column (2nd):

DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	723471	1.05
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1629594	2.74
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3720567	0.08
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1596933	2.43
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1260355	0.86
Aroclor-1260	7.85	6.95	8.75	1372418	1446986	5.43
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2068090	3.55
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1707618	0.95
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3780201	0.63
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2646013	2.70

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/03/2013

Instrument ID: GC-Y

Data File: Y1990.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	358004	9.21
Aroclor-1016 {2}	4.05	3.98	4.12	546451	503903	7.79
Aroclor-1016 {3}	4.60	4.53	4.67	687780	623467	9.35
Aroclor-1016 {4}	5.10	5.03	5.17	331025	327673	1.01
Aroclor-1016 {5}	5.50	5.42	5.56	562872	517246	8.11
Aroclor-1260	8.27	7.36	9.16	1606726	1461023	9.07
Aroclor-1260 {2}	8.94	8.04	9.84	759119	667753	12.04
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1654645	9.40
Aroclor-1260 {4}	9.89	8.99	10.79	952284	868722	8.77
Aroclor-1260 {5}	10.95	10.05	11.85	412992	409039	0.96

Data File: Y1990.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	717538	1.87
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1573354	0.81
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3673605	1.18
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1573959	3.83
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1243667	2.17
Aroclor-1260	7.85	6.95	8.75	1372418	1441534	5.04
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2058573	3.07
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1737859	0.81
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	3844284	1.05
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2685333	1.25

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.21	3.21	3.21	3.21	3.20	3.21	3.14	3.28
Aroclor-1016 {2}	4.04	4.04	4.04	4.04	4.03	4.04	3.97	4.11
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.59	4.59	4.52	4.66
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.12				2.05	2.19
Aroclor-1221 {2}			3.01				2.94	3.08
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.21				3.14	3.28
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.21				3.14	3.28
Aroclor-1232 {2}			4.04				3.97	4.11
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.04				3.97	4.11
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.27				6.20	6.34
Aroclor-1248			4.44				4.36	4.52
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				6.75	6.91
Aroclor-1254 {3}			7.00				6.91	7.09
Aroclor-1254 {4}			7.45				7.36	7.54
Aroclor-1254 {5}			8.29				8.20	8.38
Aroclor-1260	8.29	8.29	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.96	8.96	8.96	8.96	8.96	8.06	9.86
Aroclor-1260 {3}	9.45	9.45	9.44	9.44	9.44	9.45	8.55	10.35
Aroclor-1260 {4}	9.94	9.93	9.93	9.93	9.93	9.93	9.03	10.83
Aroclor-1260 {5}	11.00	11.00	11.00	10.99	10.99	11.00	10.10	11.90

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013 Instrument ID: GC-R
 GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	243865	216790	199305	183366	184539	205573	12.32
Aroclor-1016 {2}	329663	293312	273907	254375	251534	280558	11.48
Aroclor-1016 {3}	421622	378312	356112	329359	325022	362086	10.95
Aroclor-1016 {4}	196004	176563	161796	145945	139733	164008	13.98
Aroclor-1016 {5}	322251	290331	282382	257409	252936	281062	9.96
Aroclor-1221			98455				
Aroclor-1221 {2}			147422				
Aroclor-1221 {3}			104493				
Aroclor-1221 {4}			357450				
Aroclor-1221 {5}			79152				
Aroclor-1232			248609				
Aroclor-1232 {2}			144312				
Aroclor-1232 {3}			125680				
Aroclor-1232 {4}			141484				
Aroclor-1232 {5}			176247				
Aroclor-1242			232340				
Aroclor-1242 {2}			149217				
Aroclor-1242 {3}			212227				
Aroclor-1242 {4}			308432				
Aroclor-1242 {5}			255832				
Aroclor-1248			550496				
Aroclor-1248 {2}			319120				
Aroclor-1248 {3}			418121				
Aroclor-1248 {4}			650924				
Aroclor-1248 {5}			480676				
Aroclor-1254			627382				
Aroclor-1254 {2}			399643				
Aroclor-1254 {3}			752699				
Aroclor-1254 {4}			788362				
Aroclor-1254 {5}			705322				
Aroclor-1260	757128	754434	788799	691182	715219	741352	5.17
Aroclor-1260 {2}	377531	353479	367477	314922	322854	347253	7.89
Aroclor-1260 {3}	833253	861623	929397	797453	840707	852487	5.73
Aroclor-1260 {4}	442035	422694	469045	403585	434405	434353	5.57
Aroclor-1260 {5}	232694	194352	209736	173881	171745	196482	13.01

Average %RSD

9.61

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R
GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.38	3.38	3.38	3.38	3.39	3.38	3.31	3.45
Aroclor-1016 {2}	3.94	3.94	3.94	3.94	3.96	3.94	3.87	4.01
Aroclor-1016 {3}	4.66	4.66	4.66	4.66	4.67	4.66	4.59	4.73
Aroclor-1016 {4}	4.86	4.86	4.86	4.86	4.87	4.86	4.79	4.93
Aroclor-1016 {5}	5.03	5.03	5.03	5.03	5.04	5.03	4.96	5.10
Aroclor-1221			2.17				2.10	2.24
Aroclor-1221 {2}			3.08				3.01	3.15
Aroclor-1221 {3}			3.29				3.22	3.36
Aroclor-1221 {4}			3.38				3.31	3.45
Aroclor-1221 {5}			4.66				4.59	4.73
Aroclor-1232			3.38				3.31	3.45
Aroclor-1232 {2}			4.31				4.24	4.38
Aroclor-1232 {3}			4.86				4.79	4.93
Aroclor-1232 {4}			5.03				4.96	5.10
Aroclor-1232 {5}			5.61				5.54	5.68
Aroclor-1242			4.31				4.24	4.38
Aroclor-1242 {2}			5.03				4.96	5.10
Aroclor-1242 {3}			5.61				5.54	5.68
Aroclor-1242 {4}			5.76				5.69	5.83
Aroclor-1242 {5}			6.30				6.23	6.37
Aroclor-1248			4.66				4.58	4.74
Aroclor-1248 {2}			5.22				5.14	5.30
Aroclor-1248 {3}			5.61				5.53	5.69
Aroclor-1248 {4}			5.76				5.68	5.84
Aroclor-1248 {5}			6.11				6.03	6.19
Aroclor-1254			6.59				6.51	6.67
Aroclor-1254 {2}			7.17				7.09	7.25
Aroclor-1254 {3}			7.60				7.51	7.69
Aroclor-1254 {4}			7.78				7.69	7.87
Aroclor-1254 {5}			8.59				8.50	8.68
Aroclor-1260	7.35	7.35	7.35	7.35	7.36	7.35	6.45	8.25
Aroclor-1260 {2}	7.60	7.60	7.60	7.60	7.61	7.60	6.70	8.50
Aroclor-1260 {3}	9.18	9.18	9.18	9.18	9.19	9.18	8.28	10.08
Aroclor-1260 {4}	9.69	9.69	9.69	9.69	9.70	9.69	8.79	10.59
Aroclor-1260 {5}	10.28	10.28	10.28	10.27	10.28	10.28	9.38	11.18

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013 Instrument ID: GC-R
 GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	362241	319133	272025	248097	250722	290444	16.94
Aroclor-1016 {2}	743962	638498	551705	509099	507402	590133	17.13
Aroclor-1016 {3}	1634305	1339093	1240491	1157160	1153188	1304848	15.26
Aroclor-1016 {4}	640757	532369	529369	479376	469296	530233	12.83
Aroclor-1016 {5}	511215	424107	401382	365779	361833	412863	14.71
Aroclor-1221			133932				
Aroclor-1221 {2}			198787				
Aroclor-1221 {3}			133461				
Aroclor-1221 {4}			484806				
Aroclor-1221 {5}			92989				
Aroclor-1232			337701				
Aroclor-1232 {2}			127755				
Aroclor-1232 {3}			282764				
Aroclor-1232 {4}			212621				
Aroclor-1232 {5}			294142				
Aroclor-1242			199335				
Aroclor-1242 {2}			339120				
Aroclor-1242 {3}			443826				
Aroclor-1242 {4}			366761				
Aroclor-1242 {5}			720540				
Aroclor-1248			766481				
Aroclor-1248 {2}			1140084				
Aroclor-1248 {3}			814777				
Aroclor-1248 {4}			687633				
Aroclor-1248 {5}			406423				
Aroclor-1254			915839				
Aroclor-1254 {2}			721245				
Aroclor-1254 {3}			474223				
Aroclor-1254 {4}			703201				
Aroclor-1254 {5}			1013959				
Aroclor-1260	585399	517611	452177	396373	395981	469508	17.43
Aroclor-1260 {2}	883662	775223	680288	591735	587886	703758	17.97
Aroclor-1260 {3}	674621	625967	589609	507374	529398	585394	11.73
Aroclor-1260 {4}	1367534	1326755	1291089	1100209	1160368	1249191	9.12
Aroclor-1260 {5}	929561	946699	919373	778085	827578	880259	8.35
Average %RSD							14.15

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.66				8.54	8.78
Aroclor-1262 {2}			9.45				9.33	9.57
Aroclor-1262 {3}			10.08				9.96	10.20
Aroclor-1262 {4}			10.16				10.04	10.28
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.16				10.04	10.28
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.18				9.06	9.30
Aroclor-1262 {2}			9.69				9.57	9.81
Aroclor-1262 {3}			10.18				10.06	10.30
Aroclor-1262 {4}			10.27				10.15	10.39
Aroclor-1262 {5}			10.87				10.75	10.99
Aroclor-1268			10.18				10.06	10.30
Aroclor-1268 {2}			10.26				10.14	10.38
Aroclor-1268 {3}			10.51				10.39	10.63
Aroclor-1268 {4}			10.65				10.53	10.77
Aroclor-1268 {5}			11.73				11.61	11.85

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 08/30/2013 Instrument ID: GC-R
 GC Column (1st): DB-5

Data File: R3851.D R3850.D R3849.D R3848.D R3847.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			326215				
Aroclor-1262 {2}			1281764				
Aroclor-1262 {3}			491930				
Aroclor-1262 {4}			563512				
Aroclor-1262 {5}			432239				
Aroclor-1268			1292652				
Aroclor-1268 {2}			1452313				
Aroclor-1268 {3}			1123481				
Aroclor-1268 {4}			297485				
Aroclor-1268 {5}			3490031				

GC Column (2nd): DB-1701P

Data File: R3851.C R3850.C R3849.C R3848.C R3847.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			817810				
Aroclor-1262 {2}			1844146				
Aroclor-1262 {3}			599368				
Aroclor-1262 {4}			1277066				
Aroclor-1262 {5}			225009				
Aroclor-1268			1847615				
Aroclor-1268 {2}			1965341				
Aroclor-1268 {3}			1551936				
Aroclor-1268 {4}			432171				
Aroclor-1268 {5}			4623946				

AROCOLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/24/2013 Instrument ID: GC-R

Data File: R4384.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	189511	7.81
Aroclor-1016 {2}	4.04	3.97	4.11	280558	252511	10.00
Aroclor-1016 {3}	4.59	4.52	4.66	362086	329692	8.95
Aroclor-1016 {4}	5.10	5.03	5.17	164008	154438	5.84
Aroclor-1016 {5}	5.50	5.42	5.56	281062	258521	8.02
Aroclor-1260	8.30	7.39	9.19	741352	711637	4.01
Aroclor-1260 {2}	8.97	8.06	9.86	347253	326062	6.10
Aroclor-1260 {3}	9.45	8.55	10.35	852487	823289	3.43
Aroclor-1260 {4}	9.94	9.03	10.83	434353	419304	3.46
Aroclor-1260 {5}	11.00	10.10	11.90	196482	215258	9.56

Data File: R4384.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.39	3.31	3.45	290444	325519	12.08
Aroclor-1016 {2}	3.95	3.87	4.01	590133	645596	9.40
Aroclor-1016 {3}	4.67	4.59	4.73	1304848	1442551	10.55
Aroclor-1016 {4}	4.87	4.79	4.93	530233	609175	14.89
Aroclor-1016 {5}	5.03	4.96	5.10	412863	462335	11.98
Aroclor-1260	7.35	6.45	8.25	469508	506599	7.90
Aroclor-1260 {2}	7.60	6.70	8.50	703758	742963	5.57
Aroclor-1260 {3}	9.18	8.28	10.08	585394	623034	6.43
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1359070	8.80
Aroclor-1260 {5}	10.28	9.38	11.18	880259	977931	11.10

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 09/24/2013 Instrument ID: GC-R

Data File: R4391.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.14	3.28	205573	201297	2.08
Aroclor-1016 {2}	4.04	3.97	4.11	280558	269173	4.06
Aroclor-1016 {3}	4.59	4.52	4.66	362086	352706	2.59
Aroclor-1016 {4}	5.10	5.03	5.17	164008	169095	3.10
Aroclor-1016 {5}	5.50	5.42	5.56	281062	276769	1.53
Aroclor-1260	8.30	7.39	9.19	741352	762532	2.86
Aroclor-1260 {2}	8.97	8.06	9.86	347253	352612	1.54
Aroclor-1260 {3}	9.45	8.55	10.35	852487	901730	5.78
Aroclor-1260 {4}	9.94	9.03	10.83	434353	455080	4.77
Aroclor-1260 {5}	11.00	10.10	11.90	196482	213807	8.82

Data File: R4391.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.31	3.45	290444	341782	17.68
Aroclor-1016 {2}	3.94	3.87	4.01	590133	678384	14.95
Aroclor-1016 {3}	4.66	4.59	4.73	1304848	1528331	17.13
Aroclor-1016 {4}	4.86	4.79	4.93	530233	595111	12.24
Aroclor-1016 {5}	5.03	4.96	5.10	412863	493170	19.45
Aroclor-1260	7.35	6.45	8.25	469508	543709	15.80
Aroclor-1260 {2}	7.60	6.70	8.50	703758	812275	15.42
Aroclor-1260 {3}	9.18	8.28	10.08	585394	680332	16.22
Aroclor-1260 {4}	9.69	8.79	10.59	1249191	1411252	12.97
Aroclor-1260 {5}	10.27	9.38	11.18	880259	1032666	17.31

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.20	3.20	3.20	3.20	3.20	3.20	3.13	3.27
Aroclor-1016 {2}	4.03	4.03	4.03	4.03	4.03	4.03	3.96	4.10
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.59	4.59	4.52	4.66
Aroclor-1016 {4}	5.10	5.10	5.09	5.09	5.09	5.09	5.02	5.16
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.11				2.04	2.18
Aroclor-1221 {2}			3.00				2.93	3.07
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.20				3.13	3.27
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.20				3.13	3.27
Aroclor-1232 {2}			4.03				3.96	4.10
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.03				3.96	4.10
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.28				6.21	6.35
Aroclor-1248			4.44				4.36	4.52
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				6.75	6.91
Aroclor-1254 {3}			7.00				6.91	7.09
Aroclor-1254 {4}			7.45				7.36	7.54
Aroclor-1254 {5}			8.29				8.20	8.38
Aroclor-1260	8.29	8.29	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.97	8.97	8.97	8.96	8.97	8.07	9.87
Aroclor-1260 {3}	9.45	9.45	9.45	9.45	9.45	9.45	8.55	10.35
Aroclor-1260 {4}	9.94	9.94	9.94	9.94	9.93	9.94	9.04	10.84
Aroclor-1260 {5}	11.01	11.01	11.00	11.00	11.00	11.00	10.10	11.90

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File:

R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	238956	238426	221016	197053	206327	220356	8.53
Aroclor-1016 {2}	322859	323495	301808	271511	285729	301080	7.59
Aroclor-1016 {3}	416139	415483	390316	353118	373529	389717	6.98
Aroclor-1016 {4}	184507	199920	185895	164765	172191	181456	7.47
Aroclor-1016 {5}	322867	320546	311488	282232	300555	307538	5.41
Aroclor-1221			114432				
Aroclor-1221 {2}			175472				
Aroclor-1221 {3}			116606				
Aroclor-1221 {4}			409677				
Aroclor-1221 {5}			91214				
Aroclor-1232			299110				
Aroclor-1232 {2}			173564				
Aroclor-1232 {3}			151425				
Aroclor-1232 {4}			169583				
Aroclor-1232 {5}			215217				
Aroclor-1242			271243				
Aroclor-1242 {2}			171172				
Aroclor-1242 {3}			243002				
Aroclor-1242 {4}			368896				
Aroclor-1242 {5}			334402				
Aroclor-1248			645139				
Aroclor-1248 {2}			371041				
Aroclor-1248 {3}			488705				
Aroclor-1248 {4}			791653				
Aroclor-1248 {5}			569723				
Aroclor-1254			752030				
Aroclor-1254 {2}			480900				
Aroclor-1254 {3}			903710				
Aroclor-1254 {4}			935745				
Aroclor-1254 {5}			852809				
Aroclor-1260	809353	853975	887981	812983	880858	849030	4.34
Aroclor-1260 {2}	404014	408219	409739	376288	404609	400574	3.44
Aroclor-1260 {3}	1040454	1052855	1056746	954425	1033313	1027559	4.08
Aroclor-1260 {4}	489784	509425	533411	482655	530867	509228	4.54
Aroclor-1260 {5}	243012	247120	249016	215605	232018	237354	5.83
Average %RSD							5.82

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R
GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.37	3.37	3.37	3.37	3.37	3.37	3.30	3.44
Aroclor-1016 {2}	3.94	3.93	3.94	3.94	3.94	3.94	3.87	4.01
Aroclor-1016 {3}	4.65	4.65	4.65	4.65	4.65	4.65	4.58	4.72
Aroclor-1016 {4}	4.85	4.85	4.85	4.85	4.85	4.85	4.78	4.92
Aroclor-1016 {5}	5.02	5.02	5.02	5.02	5.02	5.02	4.95	5.09
Aroclor-1221			2.16				2.09	2.23
Aroclor-1221 {2}			3.07				3.00	3.14
Aroclor-1221 {3}			3.29				3.22	3.36
Aroclor-1221 {4}			3.38				3.31	3.45
Aroclor-1221 {5}			4.66				4.59	4.73
Aroclor-1232			3.37				3.30	3.44
Aroclor-1232 {2}			4.30				4.23	4.37
Aroclor-1232 {3}			4.85				4.78	4.92
Aroclor-1232 {4}			5.02				4.95	5.09
Aroclor-1232 {5}			5.60				5.53	5.67
Aroclor-1242			4.30				4.23	4.37
Aroclor-1242 {2}			5.02				4.95	5.09
Aroclor-1242 {3}			5.60				5.53	5.67
Aroclor-1242 {4}			5.76				5.69	5.83
Aroclor-1242 {5}			6.29				6.22	6.36
Aroclor-1248			4.65				4.57	4.73
Aroclor-1248 {2}			5.22				5.14	5.30
Aroclor-1248 {3}			5.60				5.52	5.68
Aroclor-1248 {4}			5.76				5.68	5.84
Aroclor-1248 {5}			6.10				6.02	6.18
Aroclor-1254			6.59				6.51	6.67
Aroclor-1254 {2}			7.16				7.08	7.24
Aroclor-1254 {3}			7.59				7.50	7.68
Aroclor-1254 {4}			7.78				7.69	7.87
Aroclor-1254 {5}			8.59				8.50	8.68
Aroclor-1260	7.34	7.34	7.34	7.34	7.34	7.34	6.44	8.24
Aroclor-1260 {2}	7.59	7.59	7.59	7.59	7.59	7.59	6.69	8.49
Aroclor-1260 {3}	9.18	9.18	9.18	9.18	9.18	9.18	8.28	10.08
Aroclor-1260 {4}	9.69	9.69	9.69	9.69	9.69	9.69	8.79	10.59
Aroclor-1260 {5}	10.27	10.28	10.27	10.27	10.27	10.27	9.37	11.17

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013 Instrument ID: GC-R
 GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	CALIBRATION FACTORS						MEAN	%RSD
	10	50	500	1000	2000			
Aroclor-1016	463482	443481	394672	349156	363575	402873	12.30	
Aroclor-1016 {2}	972946	914219	800550	715484	745062	829652	13.30	
Aroclor-1016 {3}	2003226	1895012	1794128	1625557	1725798	1808744	8.10	
Aroclor-1016 {4}	874602	819805	758782	674981	705886	766811	10.64	
Aroclor-1016 {5}	649705	630090	577596	516964	546780	584227	9.52	
Aroclor-1221			205830					
Aroclor-1221 {2}			317677					
Aroclor-1221 {3}			197191					
Aroclor-1221 {4}			731933					
Aroclor-1221 {5}			137633					
Aroclor-1232			537368					
Aroclor-1232 {2}			201363					
Aroclor-1232 {3}			443054					
Aroclor-1232 {4}			336131					
Aroclor-1232 {5}			472241					
Aroclor-1242			308614					
Aroclor-1242 {2}			520959					
Aroclor-1242 {3}			687939					
Aroclor-1242 {4}			570896					
Aroclor-1242 {5}			1110996					
Aroclor-1248			1196272					
Aroclor-1248 {2}			1787378					
Aroclor-1248 {3}			1279375					
Aroclor-1248 {4}			1156522					
Aroclor-1248 {5}			630416					
Aroclor-1254			1449464					
Aroclor-1254 {2}			1140319					
Aroclor-1254 {3}			744926					
Aroclor-1254 {4}			1087519					
Aroclor-1254 {5}			1595667					
Aroclor-1260	772842	717629	667601	596248	636006	678065	10.20	
Aroclor-1260 {2}	1203303	1137574	1003928	894435	938753	1035599	12.67	
Aroclor-1260 {3}	918251	908290	856575	776950	839956	860004	6.64	
Aroclor-1260 {4}	1869490	1994218	1907750	1702352	1827485	1860259	5.78	
Aroclor-1260 {5}	1341947	1427312	1364592	1211105	1295946	1328180	6.08	
Average %RSD							9.52	

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013 Instrument ID: GC-R
 GC Column (1st): DB-5

Data File: R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.66				8.54	8.78
Aroclor-1262 {2}			9.45				9.33	9.57
Aroclor-1262 {3}			10.08				9.96	10.20
Aroclor-1262 {4}			10.17				10.05	10.29
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.16				10.04	10.28
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.17				9.05	9.29
Aroclor-1262 {2}			9.69				9.57	9.81
Aroclor-1262 {3}			10.18				10.06	10.30
Aroclor-1262 {4}			10.27				10.15	10.39
Aroclor-1262 {5}			10.86				10.74	10.98
Aroclor-1268			10.18				10.06	10.30
Aroclor-1268 {2}			10.26				10.14	10.38
Aroclor-1268 {3}			10.50				10.38	10.62
Aroclor-1268 {4}			10.65				10.53	10.77
Aroclor-1268 {5}			11.73				11.61	11.85

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed:

09/25/2013

Instrument ID:

GC-R

GC Column (1st):

DB-5

Data File:

R4398.D

R4397.D

R4396.D

R4395.D

R4394.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			412256				
Aroclor-1262 {2}			1603317				
Aroclor-1262 {3}			600064				
Aroclor-1262 {4}			726266				
Aroclor-1262 {5}			562568				
Aroclor-1268			1631126				
Aroclor-1268 {2}			1792929				
Aroclor-1268 {3}			1398759				
Aroclor-1268 {4}			384285				
Aroclor-1268 {5}			4463165				

GC Column (2nd): DB-1701P

Data File:

R4398.C

R4397.C

R4396.C

R4395.C

R4394.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1324749				
Aroclor-1262 {2}			3035817				
Aroclor-1262 {3}			967719				
Aroclor-1262 {4}			2127918				
Aroclor-1262 {5}			426507				
Aroclor-1268			2933662				
Aroclor-1268 {2}			3178941				
Aroclor-1268 {3}			2495408				
Aroclor-1268 {4}			657283				
Aroclor-1268 {5}			7870801				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/08/2013

Instrument ID: GC-R

Data File: R4674.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	220356	216965	1.54
Aroclor-1016 {2}	4.04	3.96	4.10	301080	288028	4.34
Aroclor-1016 {3}	4.59	4.52	4.66	389717	378993	2.75
Aroclor-1016 {4}	5.10	5.02	5.16	181456	195606	7.80
Aroclor-1016 {5}	5.50	5.42	5.56	307538	299416	2.64
Aroclor-1260	8.30	7.39	9.19	849030	906212	6.73
Aroclor-1260 {2}	8.97	8.07	9.87	400574	419082	4.62
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	1123780	9.36
Aroclor-1260 {4}	9.94	9.04	10.84	509228	572819	12.49
Aroclor-1260 {5}	11.00	10.10	11.90	237354	270348	13.90

Data File: R4674.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	402873	419202	4.05
Aroclor-1016 {2}	3.94	3.87	4.01	829652	812914	2.02
Aroclor-1016 {3}	4.65	4.58	4.72	1808744	1851806	2.38
Aroclor-1016 {4}	4.86	4.78	4.92	766811	782363	2.03
Aroclor-1016 {5}	5.02	4.95	5.09	584227	598450	2.43
Aroclor-1260	7.34	6.44	8.24	678065	802545	18.36
Aroclor-1260 {2}	7.59	6.69	8.49	1035599	1081601	4.44
Aroclor-1260 {3}	9.17	8.28	10.08	860004	950171	10.48
Aroclor-1260 {4}	9.68	8.79	10.59	1860259	2224588	19.58
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1511769	13.82

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/08/2013

Instrument ID: GC-R

Data File: R4681.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	220356	184917	16.08
Aroclor-1016 {2}	4.04	3.96	4.10	301080	247973	17.64
Aroclor-1016 {3}	4.59	4.52	4.66	389717	326645	16.18
Aroclor-1016 {4}	5.10	5.02	5.16	181456	161562	10.96
Aroclor-1016 {5}	5.49	5.42	5.56	307538	260279	15.37
Aroclor-1260	8.30	7.39	9.19	849030	813766	4.15
Aroclor-1260 {2}	8.97	8.07	9.87	400574	384011	4.13
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	1016900	1.04
Aroclor-1260 {4}	9.94	9.04	10.84	509228	524088	2.92
Aroclor-1260 {5}	11.00	10.10	11.90	237354	242965	2.36

Data File: R4681.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.30	3.44	402873	362566	10.00
Aroclor-1016 {2}	3.94	3.87	4.01	829652	716999	13.58
Aroclor-1016 {3}	4.67	4.58	4.72	1808744	1629313	9.92
Aroclor-1016 {4}	4.87	4.78	4.92	766811	688560	10.20
Aroclor-1016 {5}	5.03	4.95	5.09	584227	531056	9.10
Aroclor-1260	7.35	6.44	8.24	678065	727855	7.34
Aroclor-1260 {2}	7.60	6.69	8.49	1035599	972140	6.13
Aroclor-1260 {3}	9.18	8.28	10.08	860004	898135	4.43
Aroclor-1260 {4}	9.69	8.79	10.59	1860259	2047468	10.06
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1501432	13.04

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-R

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.74</u>	DCB 1	<u>12.09</u>	TCMX 2	<u>2.56</u>	DCB 2	<u>11.94</u>
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Client ID	Lab	Date	Time	TCMX 1	DCB 1	TCMX 2	DCB 2		
	Sample ID	Analyzed	Analyzed	RT	#	RT	#	RT	#
PCB	BLKS131002-09	10/02/2013	17:42	2.74		12.09		2.56	
PCB	LCSS131002-09	10/02/2013	17:59	2.74		12.09		2.56	
HH-35_(4.0)	09604-008	10/02/2013	18:17	2.74		12.08		2.56	
PCB	09604-008MS	10/02/2013	18:34	2.74		12.08		2.56	
PCB	09604-008MSD	10/02/2013	18:51	2.74		12.08		2.56	
Q-47(4.0-5)	09542-011	10/02/2013	19:09	2.74		12.08		2.56	
Q-47(5.0-6)	09542-012	10/02/2013	19:26	2.74		12.08		2.56	
Q-47N(2)(5)	09542-013	10/02/2013	19:44	2.74		12.08		2.56	
WC1/6	09485-001	10/02/2013	21:28	2.74		12.08		2.56	
S-1	09552-001	10/02/2013	21:46	2.74		12.08		2.56	
S-2	09552-002	10/02/2013	22:03	2.74		12.08		2.56	
S-3	09552-003	10/02/2013	22:21	2.74		12.08		2.56	
S-4	09552-004	10/02/2013	22:38	2.74		12.08		2.56	
S-5	09552-005	10/02/2013	22:55	2.74		12.08		2.56	
BS-8	09552-006	10/02/2013	23:13	2.74		12.08		2.57	
BS-9	09552-007	10/02/2013	23:30	2.74		12.08		2.56	
WC-1	09560-001	10/02/2013	23:48	2.74		12.08		2.56	
JJ-34R_(4.)	09604-001	10/03/2013	00:05	2.74		12.08		2.56	
JJ-34R_(5.)	09604-002	10/03/2013	00:23	2.74		12.08		2.56	
JJ-33E_(6.)	09604-003	10/03/2013	00:40	2.74		12.08		2.56	
JJ-33R	09604-004	10/03/2013	00:57	2.74		12.08		2.56	
GG-37_(4.0)	09604-005	10/03/2013	01:15	2.74		12.08		2.56	
HH-36W_(4.)	09604-006	10/03/2013	01:32	2.74		12.08		2.56	
GG-36N_(5.)	09604-007	10/03/2013	01:50	2.74		12.08		2.57	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(\pm 0.10 Minutes)

DCB = Decachlorobiphenyl

(\pm 0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-Y

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.77</u>	DCB 1	<u>12.04</u>	TCMX 2	<u>2.89</u>	DCB 2	<u>12.48</u>
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Client ID	Lab	Date	Time	TCMX 1	DCB 1	TCMX 2	DCB 2
	Sample ID	Analyzed	Analyzed	RT #	RT #	RT #	RT #
PCB	BLKS131002-07	10/02/2013	22:28	2.77	12.04	2.89	12.48
PCB	LCSS131002-07	10/02/2013	22:45	2.77	12.04	2.89	12.47
13-165	09593-001	10/02/2013	23:03	2.77	12.04	2.89	12.48
PCB	09593-001MS	10/02/2013	23:20	2.77	12.04	2.89	12.48
PCB	09593-001MSD	10/02/2013	23:38	2.77	12.04	2.89	12.48
HH-35N_(4.	09604-009	10/03/2013	01:22	2.77	12.04	2.89	12.48
KK-36R_(0-	09643-001	10/03/2013	01:40	2.77	12.04	2.89	12.47
KK-36R_(1.	09643-002	10/03/2013	01:57	2.77	12.04	2.89	12.47
KK-37_(0-1	09643-003	10/03/2013	02:14	2.77	12.04	2.89	12.48
KK-37_(1.0	09643-004	10/03/2013	02:32	2.77	12.04	2.89	12.48
KK-37_(2.0	09643-005	10/03/2013	02:49	2.77	12.04	2.89	12.48
KK-38_(0-1	09643-006	10/03/2013	03:07	2.77	12.04	2.89	12.48
KK-38_(1.0	09643-007	10/03/2013	03:24	2.77	12.04	2.89	12.48
KK-39_(0-1	09643-008	10/03/2013	03:41	2.77	12.04	2.89	12.48
KK-39_(1.0	09643-009	10/03/2013	03:59	2.77	12.04	2.89	12.48
S-3	09652-001	10/03/2013	04:16	2.77	12.04	2.89	12.48
S-4	09652-002	10/03/2013	04:33	2.77	12.04	2.89	12.48
S-5	09652-003	10/03/2013	04:51	2.77	12.04	2.89	12.48
BS-8	09652-004	10/03/2013	05:08	2.77	12.04	2.89	12.48
13-164	09610-001	10/03/2013	05:26	2.77	12.04	2.89	12.48
13-163	09611-001	10/03/2013	05:43	2.77	12.04	2.89	12.48
13-167-G4	09594-001	10/03/2013	06:00	2.77	12.04	2.89	12.48

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(\pm 0.10 Minutes)

DCB = Decachlorobiphenyl

(\pm 0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-R

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.75</u>	DCB 1	<u>12.09</u>	TCMX 2	<u>2.57</u>	DCB 2	<u>11.95</u>
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Client ID	Lab	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKA130923-16	09/24/2013	16:40	2.75	12.09	2.57	11.95
FB091713	09228-008	09/24/2013	16:58	2.75	12.09	2.57	11.95
EX_WELL	09198-007	09/24/2013	17:15	2.75	12.09	2.57	11.95
PCB	09198-007MS	09/24/2013	17:33	2.75	12.09	2.57	11.95
PCB	09198-007MSD	09/24/2013	17:50	2.75	12.09	2.57	11.94
PCB	LCSA130923-16	09/24/2013	18:08	2.75	12.09	2.57	11.95

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(\pm 0.10 Minutes)

DCB = Decachlorobiphenyl

(\pm 0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-R

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.74</u>	DCB 1	<u>12.08</u>	TCMX 2	<u>2.57</u>	DCB 2	<u>11.94</u>
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Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKA131007-20	10/08/2013	12:31	2.74	12.08	2.57	11.94
PCB	LCSA131007-20	10/08/2013	12:49	2.74	12.08	2.56	11.94
FB-14	09604-010	10/08/2013	13:06	2.74	12.08	2.57	11.94
FB-15	09643-010	10/08/2013	13:24	2.74	12.08	2.56	11.94
FB-16	09749-026	10/08/2013	13:41	2.74	12.08	2.56	11.94
FB-17	09822-024	10/08/2013	13:59	2.74	12.08	2.56	11.94

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(\pm 0.10 Minutes)

DCB = Decachlorobiphenyl

(\pm 0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SAMPLE DATA

E13-09604 0075

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4575.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 03 Oct 2013 00:05
 Operator : NG
 Sample : JJ-34R_(4.,09604-001,S,5.94g,23.0,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 14:14:06 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

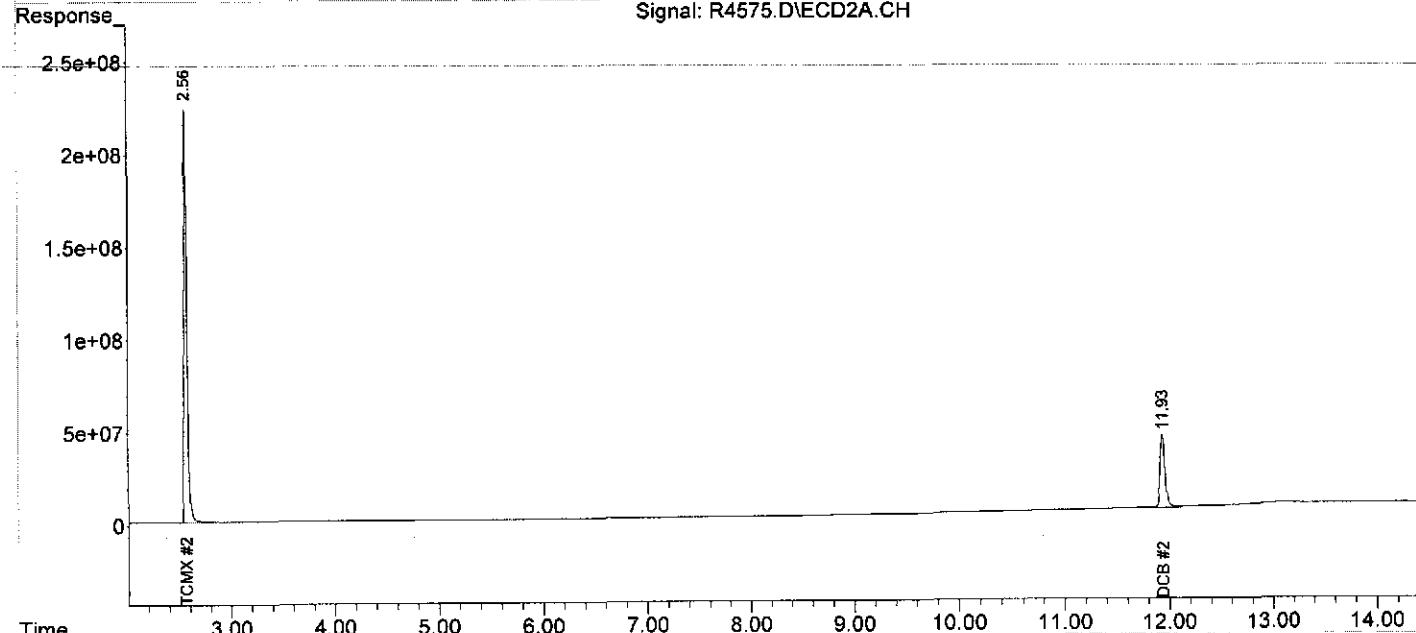
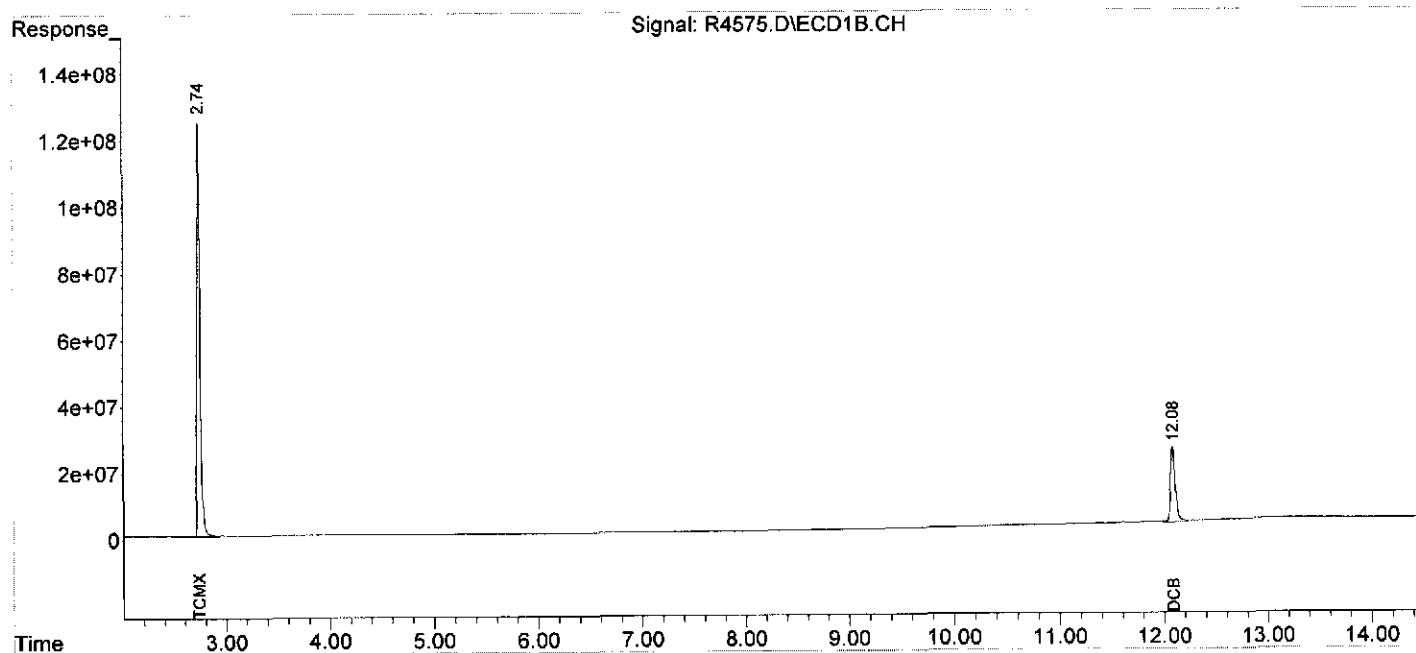
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2501.3E6	4607.7E6	213.805	209.211
Spiked Amount	200.000			Recovery	=	106.90%
2) S DCB	12.08	11.94	749.5E6	1363.3E6	200.658m	210.257
Spiked Amount	200.000			Recovery	=	100.33%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4575.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 00:05
Operator : NG
Sample : JJ-34R_(4.,09604-001,S,5.94g,23.0,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 14:14:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4576.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 03 Oct 2013 00:23
 Operator : NG
 Sample : JJ-34R_(5.,09604-002,S,5.22g,22.5,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 14:14:42 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

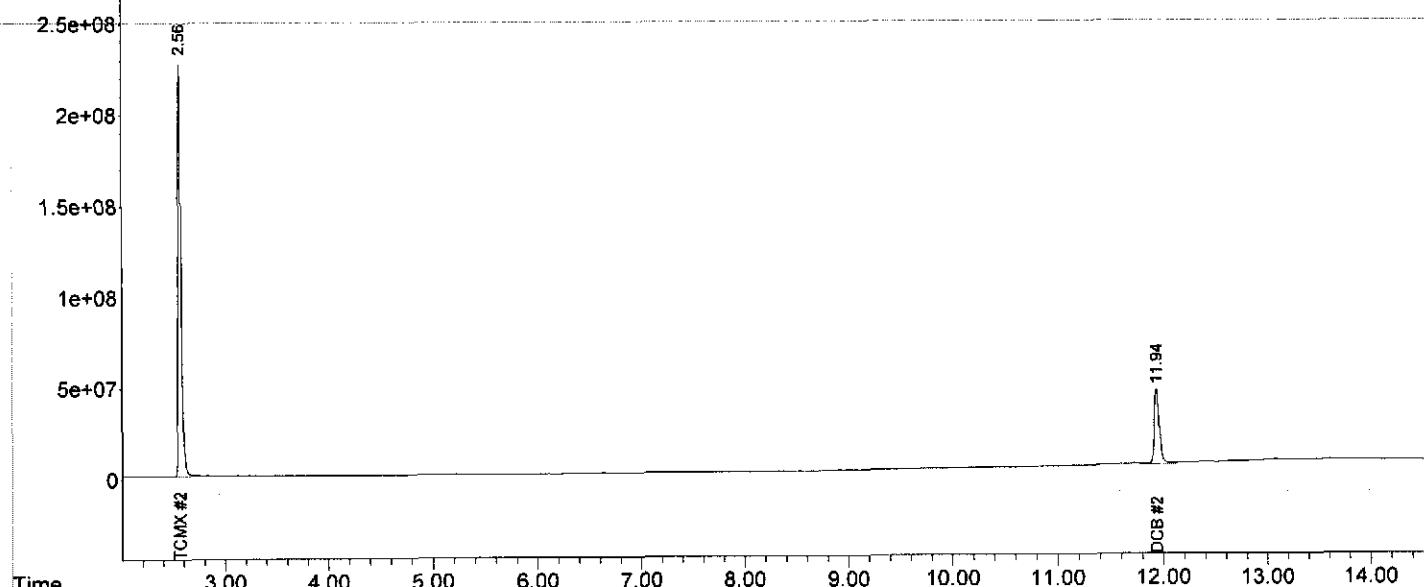
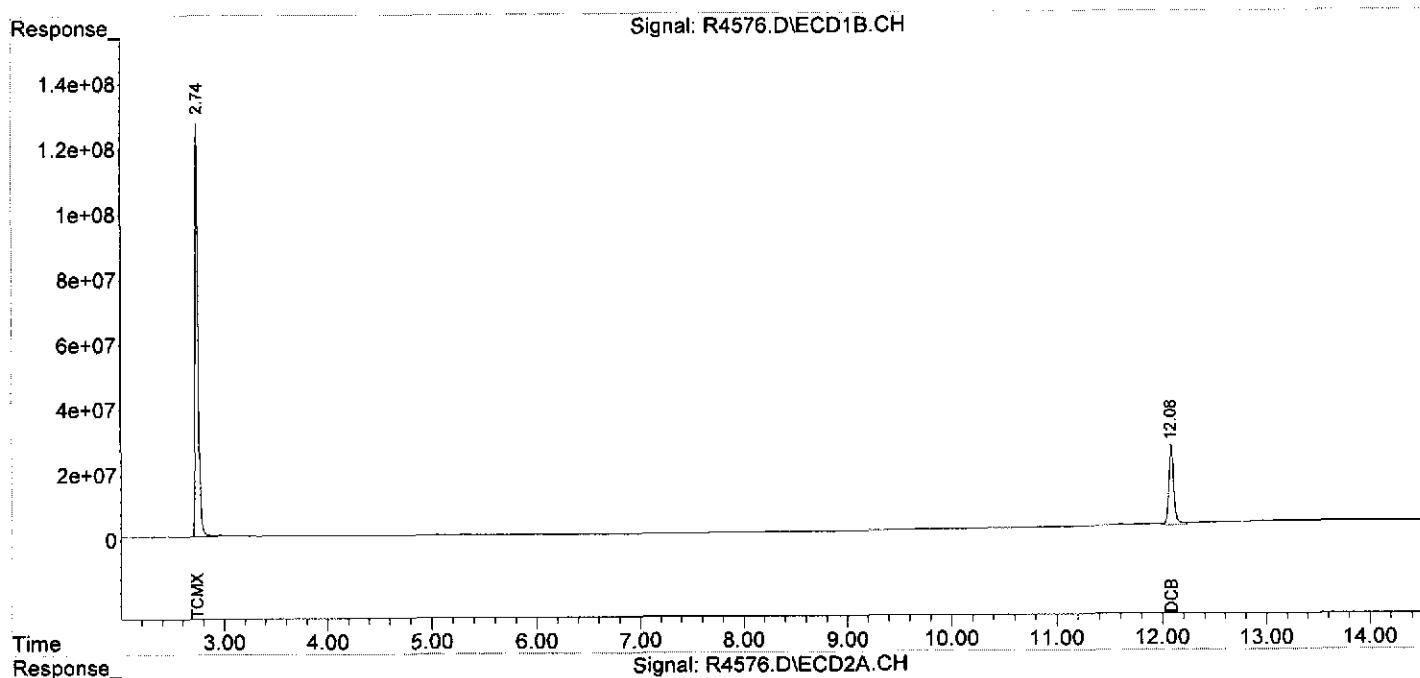
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2540.0E6	4689.6E6	217.113	212.930
Spiked Amount	200.000			Recovery	= 108.56%	106.47%
2) S DCB	12.08	11.94	806.4E6	1404.5E6	215.883m	216.603
Spiked Amount	200.000			Recovery	= 107.94%	108.30%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4576.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 00:23
Operator : NG
Sample : JJ-34R_(5.,09604-002,S,5.22g,22.5,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 14:14:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4577.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 03 Oct 2013 00:40
 Operator : NG
 Sample : JJ-33E_(6.,09604-003,S,5.84g,18.4,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 14:15:17 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

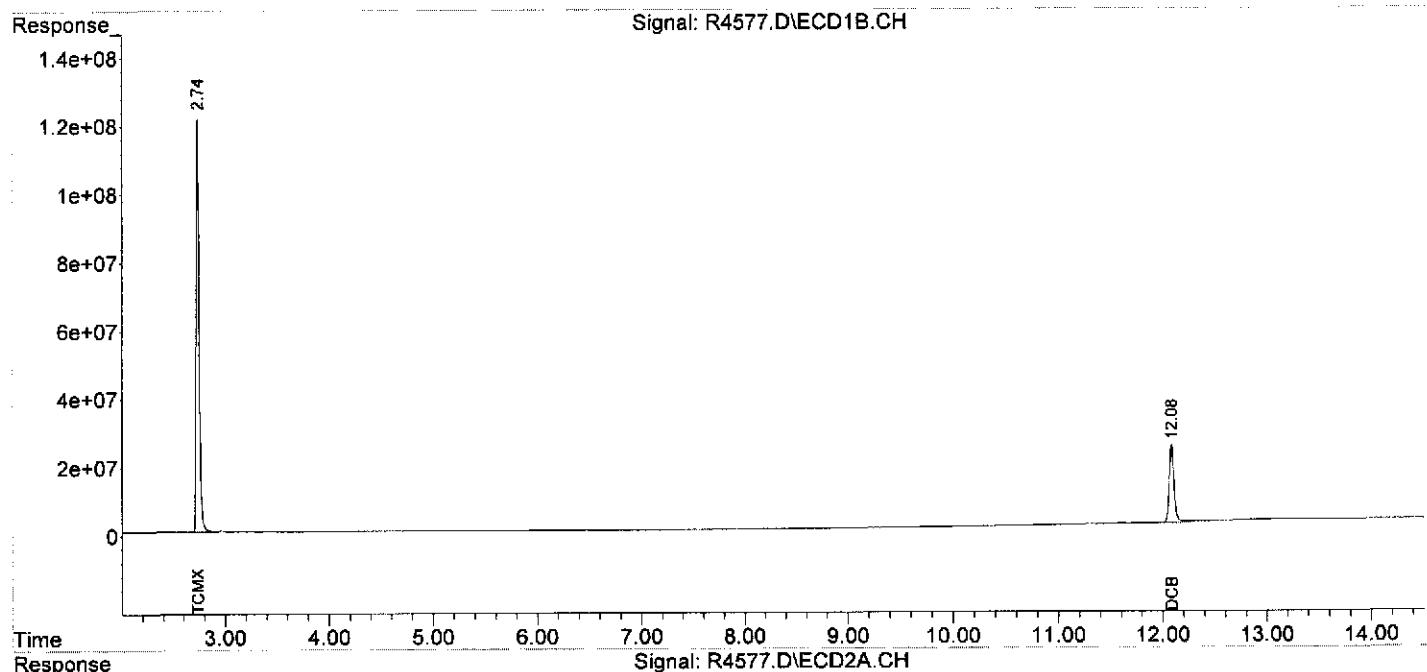
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2444.9E6	4515.3E6	208.987	205.013
Spiked Amount	200.000			Recovery	=	104.49%
2) S DCB	12.08	11.94	788.3E6	1293.3E6	211.038	199.455
Spiked Amount	200.000			Recovery	=	105.52%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4577.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 00:40
Operator : NG
Sample : JJ-33E_(6.,09604-003,S,5.84g,18.4,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 14:15:17 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4578.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 03 Oct 2013 00:57
 Operator : NG
 Sample : JJ-33R_(6.,09604-004,S,5.33g,16.5,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 14:16:02 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

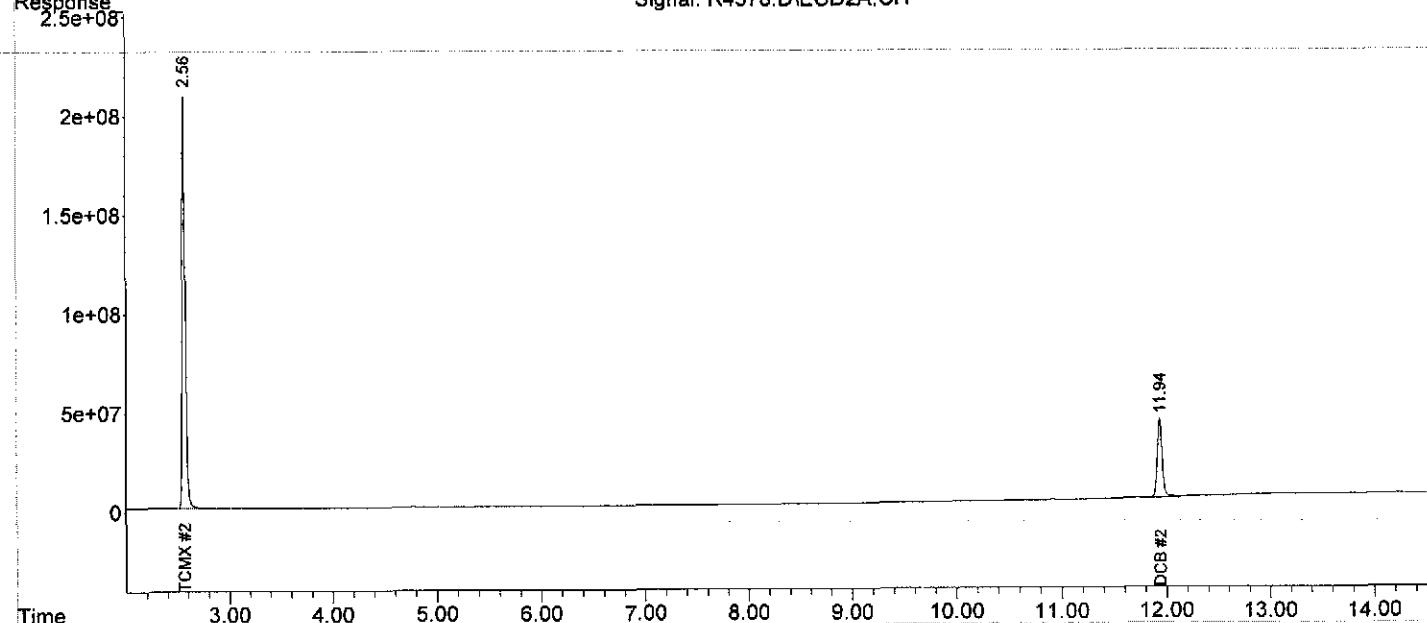
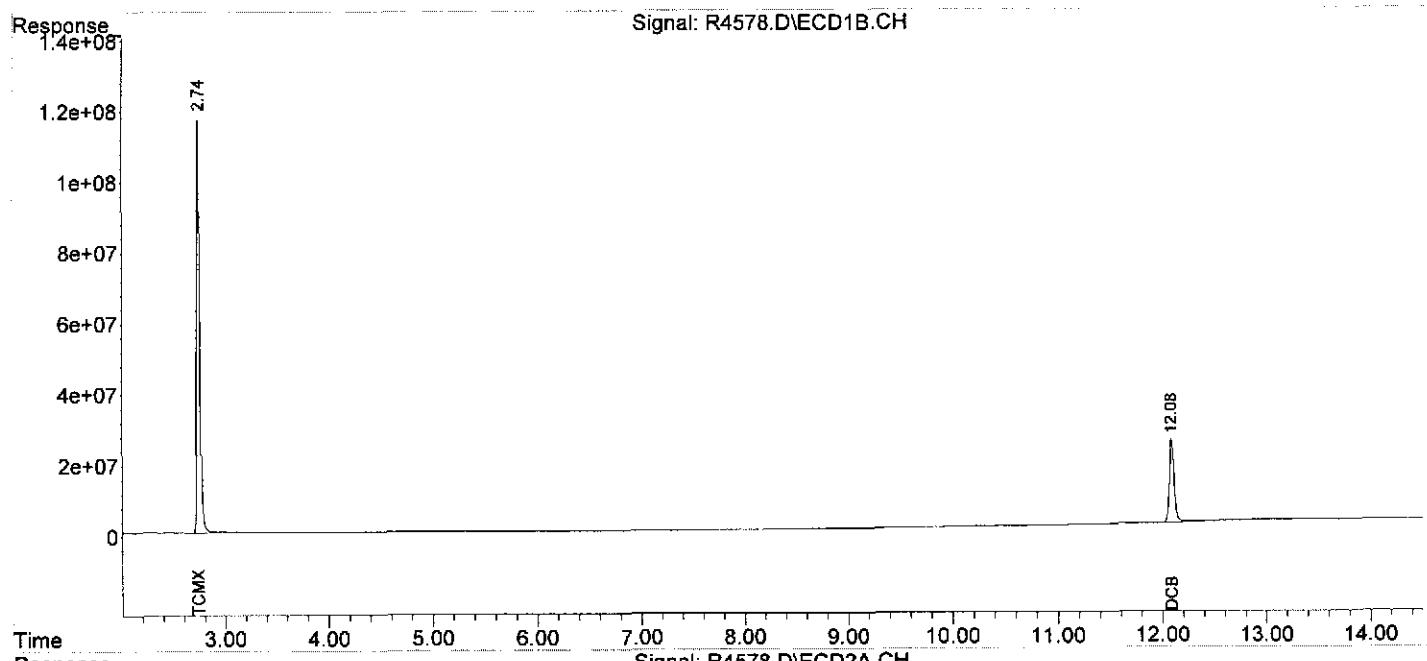
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2394.1E6	4434.1E6	204.645	201.328
Spiked Amount	200.000			Recovery	=	102.32%
2) S DCB	12.08	11.94	792.4E6	1325.9E6	212.134	204.482
Spiked Amount	200.000			Recovery	=	106.07%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4578.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 00:57
Operator : NG
Sample : JJ-33R_(6.,09604-004,S,5.33g,16.5,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 14:16:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4579.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 03 Oct 2013 1:15
 Operator : NG
 Sample : GG-37_(4.0,09604-005,S,5.45g,21.9,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 14:17:18 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2439.2E6	4524.1E6	208.503	205.413
Spiked Amount	200.000			Recovery	= 104.25%	102.71%
2) S DCB	12.08	11.94	857.1E6	1586.6E6	229.463	244.690
Spiked Amount	200.000			Recovery	= 114.73%	122.35%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	107.2E6	194.9E6	166.147	162.907
24) L6 Aroclor-1248 {2}	4.98	5.22	32038338	190.2E6	86.347	106.412
25) L6 Aroclor-1248 {3}	5.30	5.61	73459530	63903243	150.315	49.949 #
26) L6 Aroclor-1248 {4}	6.00	5.75	26329356	49937397	33.259	43.179 #
27) L6 Aroclor-1248 {5}	6.23	6.10	69328801	18506198	121.689	29.356 #
Sum Aroclor-1248			308.3E6	517.4E6	557.757	391.802
Average Aroclor-1248					111.551	78.360
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

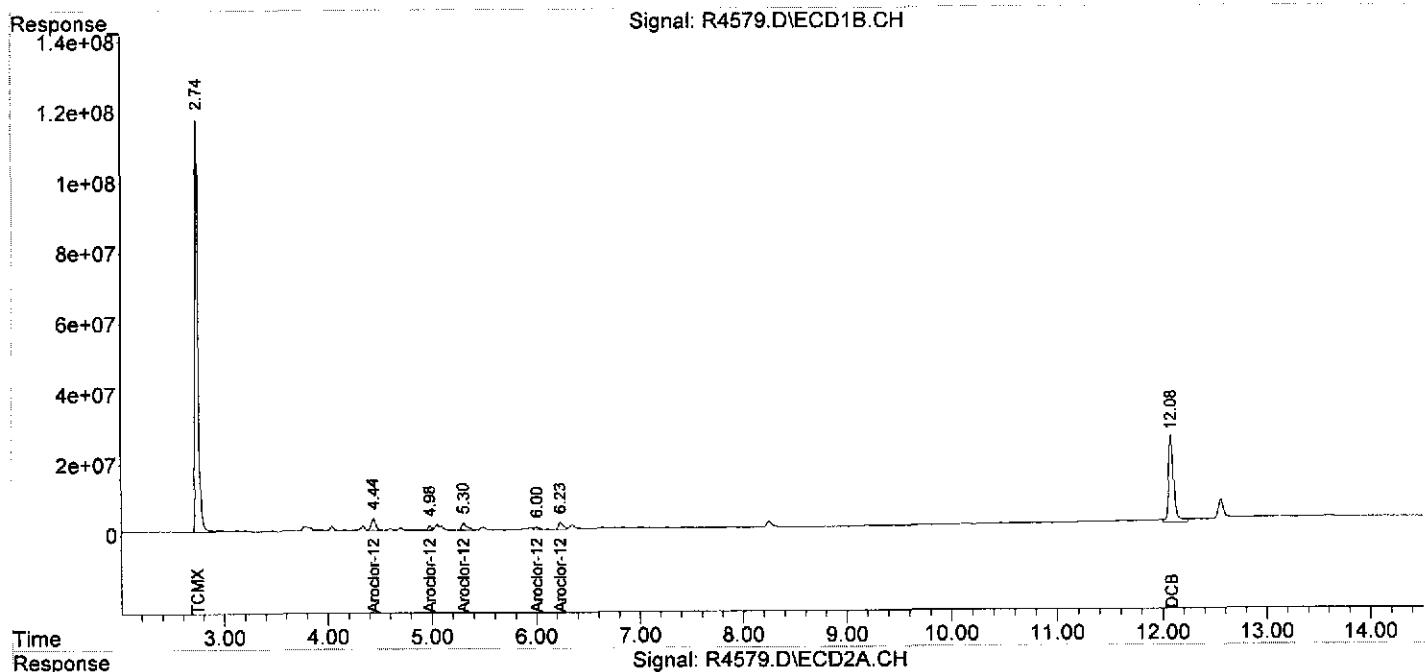
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4579.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 1:15
Operator : NG
Sample : GG-37_(4.0,09604-005,S,5.45g,21.9,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 14:17:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4580.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 03 Oct 2013 1:32
 Operator : NG
 Sample : HH-36W_(4.,09604-006,S,5.83g,22.3,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 14:21:35 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2468.3E6	4582.6E6	210.987	208.073
Spiked Amount	200.000			Recovery	= 105.49%	104.04%
2) S DCB	12.08	11.94	838.7E6	1554.1E6	224.538	239.680
Spiked Amount	200.000			Recovery	= 112.27%	119.84%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	83541803	149.1E6	129.494	124.638
24) L6 Aroclor-1248 {2}	4.98	5.21	30534902	157.8E6	82.295	88.280
25) L6 Aroclor-1248 {3}	0.00	5.60	0	102.4E6	N.D. d	80.074 #
26) L6 Aroclor-1248 {4}	6.00	5.75	35781143	76452186	45.198	66.105 #
27) L6 Aroclor-1248 {5}	6.23	6.10	76474078	23108223	134.230	36.656 #
Sum Aroclor-1248			226.3E6	508.9E6	391.218	395.753
Average Aroclor-1248					97.804	79.151
28) L7 Aroclor-1254	6.39	0.00	21147892	0	28.121	N.D. d#
29) L7 Aroclor-1254 {2}	6.83	7.16	14963150	34500973	31.115	30.256
30) L7 Aroclor-1254 {3}	7.00	7.59	33340807	20832376	36.893	27.966
31) L7 Aroclor-1254 {4}	7.45	7.76	23110430	54634207	24.697	50.237 #
32) L7 Aroclor-1254 {5}	0.00	8.58	0	101.5E6	N.D. d	63.595m#
Sum Aroclor-1254			92562279	211.4E6	120.827	172.053
Average Aroclor-1254					30.207	43.013
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4580.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 1:32
Operator : NG
Sample : HH-36W_(4.,09604-006,S,5.83g,22.3,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 14:21:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

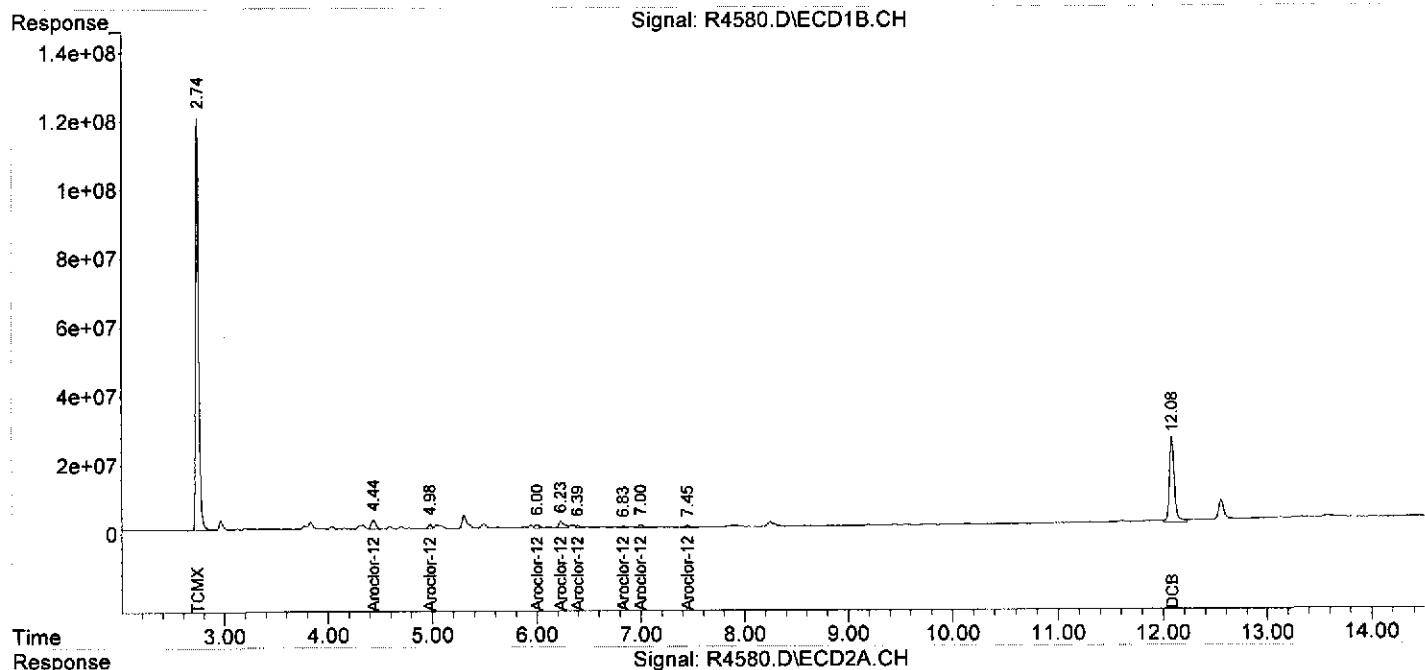
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4580.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 1:32
Operator : NG
Sample : HH-36W_(4.,09604-006,S,5.83g,22.3,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 14:21:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4581.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 03 Oct 2013 1:50
 Operator : NG
 Sample : GG-36N_(5.,09604-007,S,5.81g,20.0,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 14:22:19 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

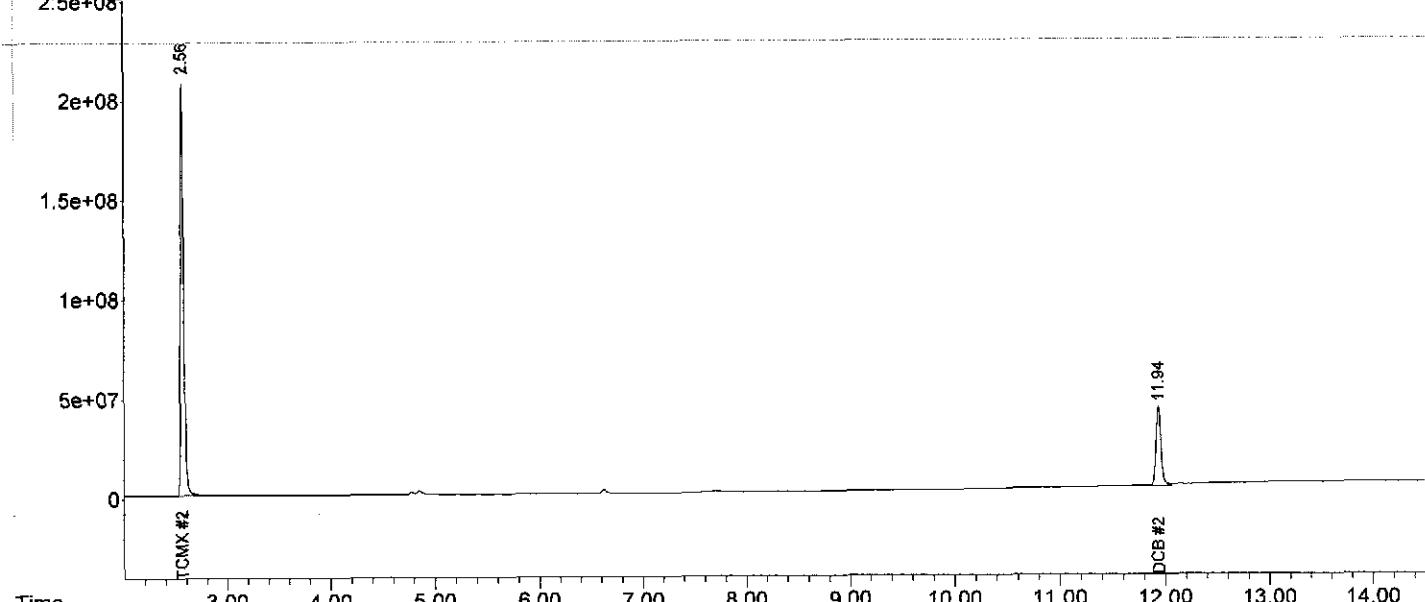
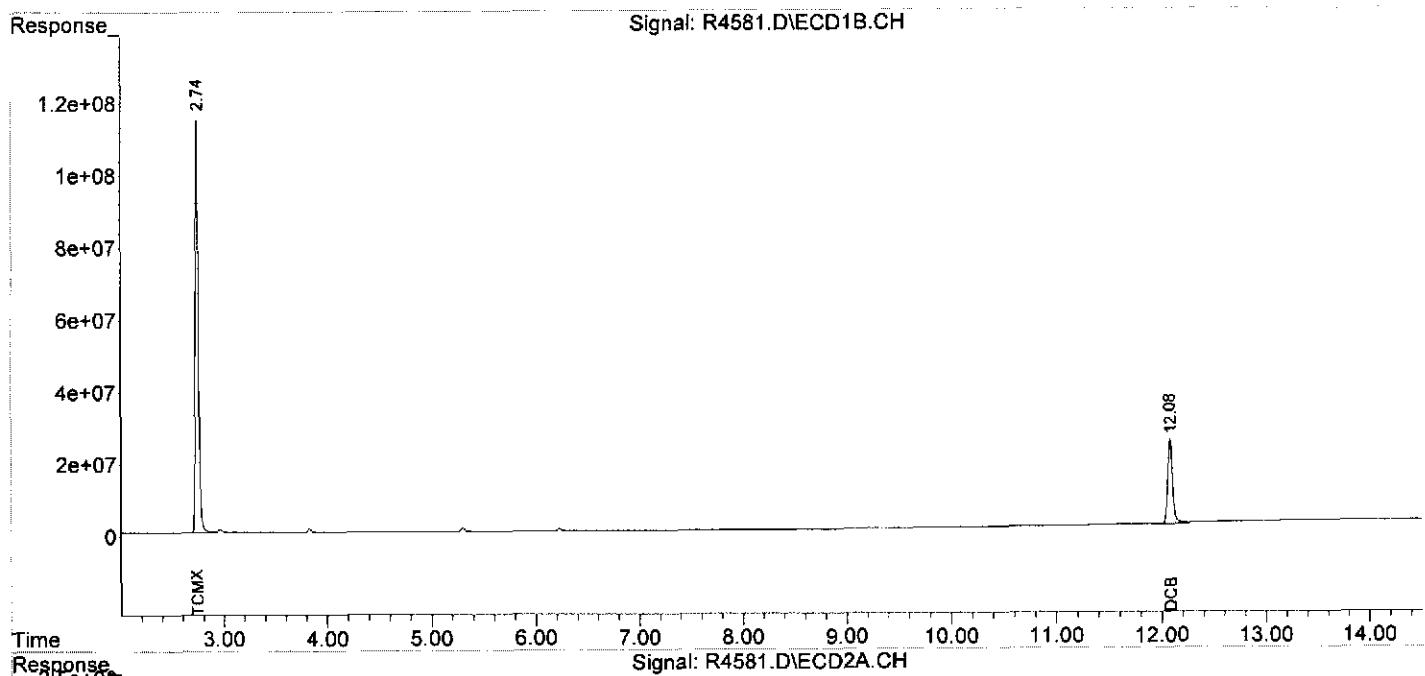
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2408.5E6	4449.3E6	205.875	202.019
Spiked Amount	200.000			Recovery	=	102.94% 101.01%
2) S DCB	12.08	11.94	782.6E6	1351.9E6	209.514m	208.494m
Spiked Amount	200.000			Recovery	=	104.76% 104.25%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4581.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 1:50
Operator : NG
Sample : GG-36N_(5.,09604-007,S,5.81g,20.0,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 14:22:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4559.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 02 Oct 2013 18:17
 Operator : NG
 Sample : HH-35_(4.0,09604-008,S,5.54g,21.7,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 12:41:39 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2418.6E6	4500.1E6	206.737	204.325
Spiked Amount	200.000			Recovery	= 103.37%	102.16%
2) S DCB	12.08	11.94	764.9E6	1433.4E6	204.788	221.065
Spiked Amount	200.000			Recovery	= 102.39%	110.53%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	527.0E6	943.1E6	816.936	788.350
24) L6 Aroclor-1248 {2}	4.97	5.22	208.4E6	1261.6E6	561.566	705.844 #
25) L6 Aroclor-1248 {3}	5.30	5.61	117.7E6	354.5E6	240.936	277.092
26) L6 Aroclor-1248 {4}	6.00	5.75	180.5E6	263.2E6	227.946	227.544
27) L6 Aroclor-1248 {5}	6.27	6.10	138.6E6	161.0E6	243.248	255.386
Sum Aroclor-1248			1172.2E6	2983.4E6	2090.632	2254.215
Average Aroclor-1248					418.126	450.843
28) L7 Aroclor-1254	6.39	6.63	90828887	326.2E6	120.778	225.078 #
29) L7 Aroclor-1254 {2}	6.83	7.17	56931564	133.2E6	118.385	116.853
30) L7 Aroclor-1254 {3}	7.00	7.59	116.1E6	88920812	128.510	119.369
31) L7 Aroclor-1254 {4}	7.45	7.77	103.2E6	278.0E6	110.259	255.626 #
32) L7 Aroclor-1254 {5}	8.29	8.58	43110980	78278234	50.552	49.057
Sum Aroclor-1254			410.2E6	904.7E6	528.484	765.982
Average Aroclor-1254					105.697	153.196
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4559.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 18:17
Operator : NG
Sample : HH-35_(4.0,09604-008,S,5.54g,21.7,10/02/13,4
Misc : 131002-09,09/30/13,09/30/13,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 12:41:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

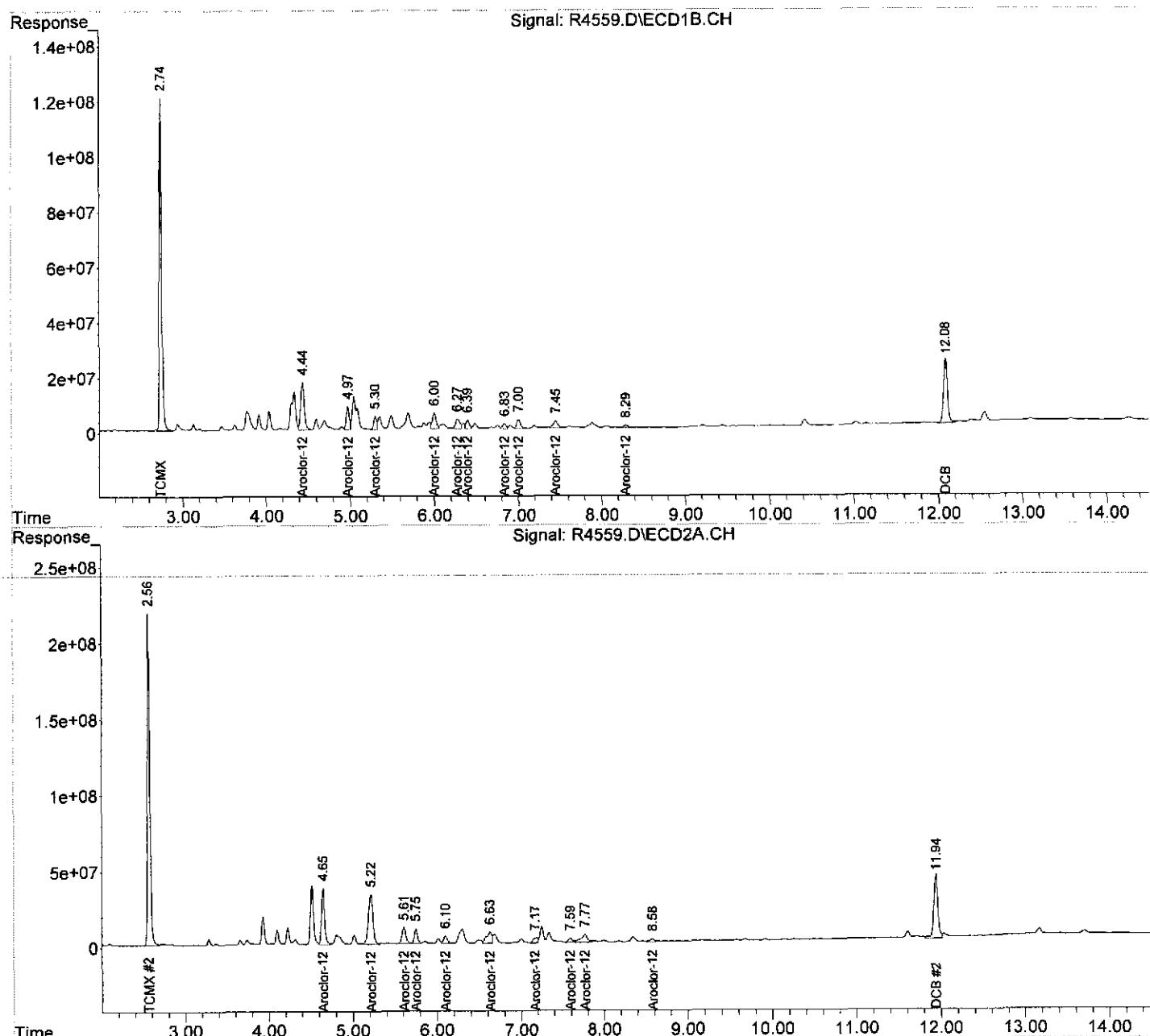
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4559.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 02 Oct 2013 18:17
 Operator : NG
 Sample : HH-35_(4.0,09604-008,S,5.54g,21.7,10/02/13,4
 Misc : 131002-09,09/30/13,09/30/13,1
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 12:41:39 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : Y1973.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 03 Oct 2013 1:22
 Operator : NG
 Sample : HH-35NL(4.,09604-009.S,5,31g,24.1,10/02/13,4
 Misc : 131002-07,09/30/13,09/30/13,1
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 15:52:06 2013
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
 Quant Title :
 QLast Update : Mon Sep 30 10:08:11 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3765.8E6	7723.3E6	203.970	210.304
Spiked Amount	200.000			Recovery	= 101.98%	105.15%
2) S DCB	12.04	12.48	1001.2E6	2455.9E6	162.457	190.134
Spiked Amount	200.000			Recovery	= 81.23%	95.07%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	110.9E6	250.9E6	103.444	104.686
24) L6 Aroclor-1248 {2}	4.98	5.69	75378757	475.3E6	121.915	134.304
25) L6 Aroclor-1248 {3}	5.30	6.09	97527923	337.4E6	122.613	132.279
26) L6 Aroclor-1248 {4}	6.00	6.24	147.2E6	248.7E6	116.511	111.511
27) L6 Aroclor-1248 {5}	6.27	6.59	107.8E6	128.3E6	107.969	99.096
Sum Aroclor-1248			538.9E6	1440.7E6	572.452	581.876
Average Aroclor-1248					114.490	116.375
28) L7 Aroclor-1254	6.39	0.00	56866372	0	45.458	N.D. d#
29) L7 Aroclor-1254 {2}	6.82	7.67	54882864	189.2E6	66.845	86.733 #
30) L7 Aroclor-1254 {3}	6.99	8.28	93056988	156.2E6	62.843	83.751 #
31) L7 Aroclor-1254 {4}	7.43	8.51	77440831	37007479	48.192	32.515 #
32) L7 Aroclor-1254 {5}	8.22	9.10	110.2E6	250.4E6	77.067	84.016
Sum Aroclor-1254			392.4E6	632.8E6	300.406	287.015
Average Aroclor-1254					60.081	71.754
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

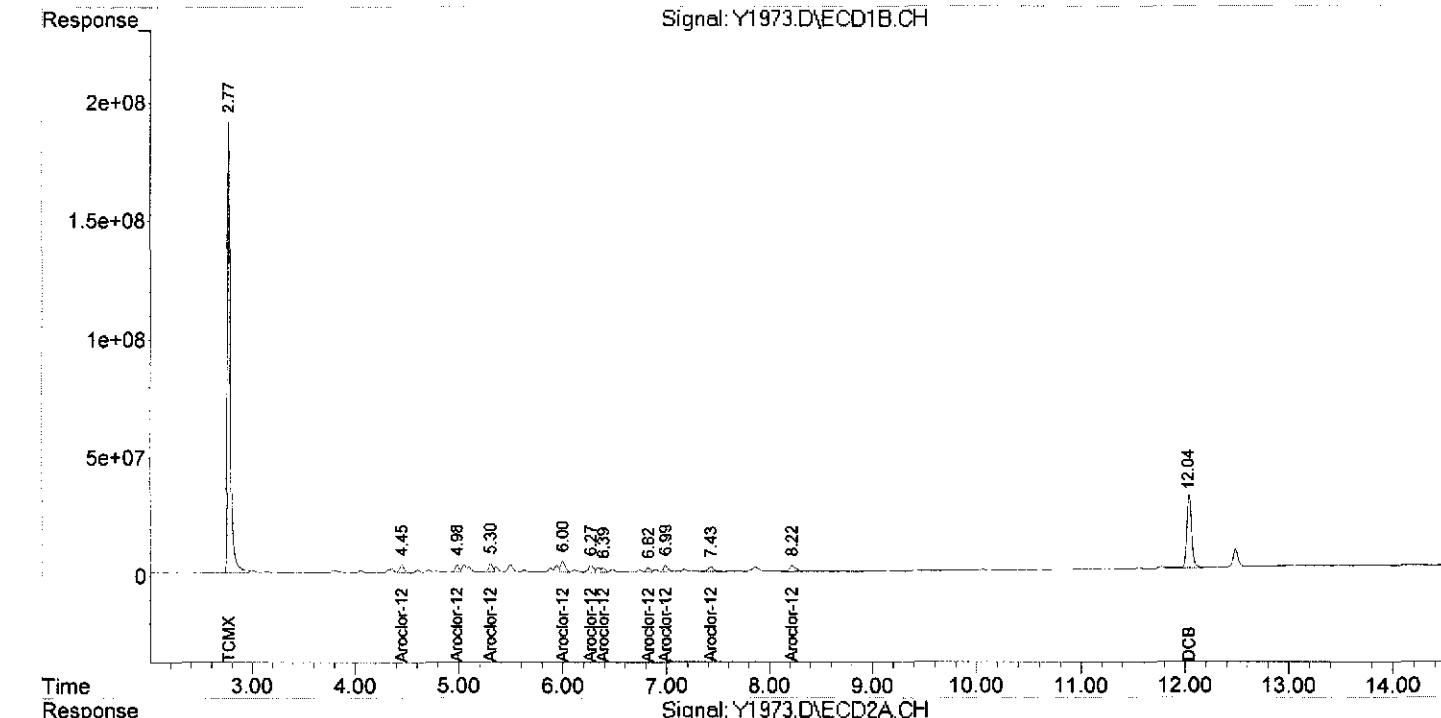
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1973.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 03 Oct 2013 1:22
Operator : NG
Sample : HH-35N_(4.,09604-009.S,5.31g,24.1,10/02/13,4
Misc : 131002-07,09/30/13,09/30/13,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 15:52:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-08-13\
 Data File : R4677.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 08 Oct 2013 13:06
 Operator : NG
 Sample : FB-14,09604-010,A,1000ml,100,10/07/13,1
 Misc : 131007-20,09/30/13,09/30/13,1
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 08 13:46:57 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

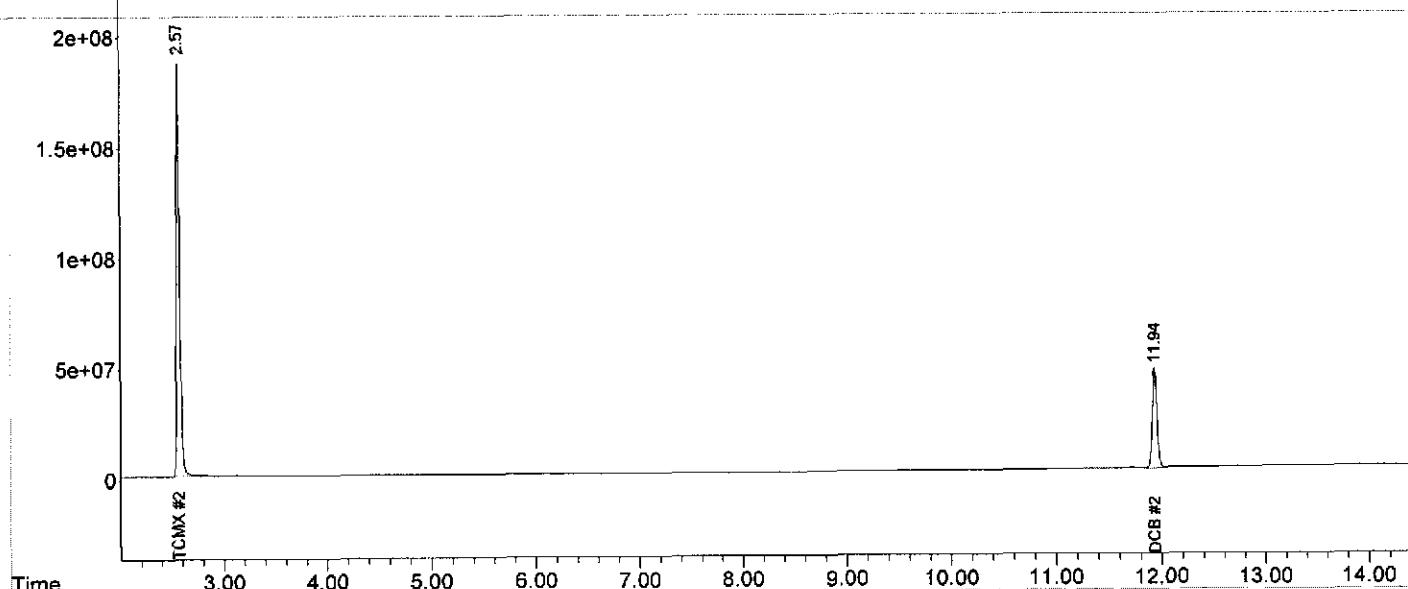
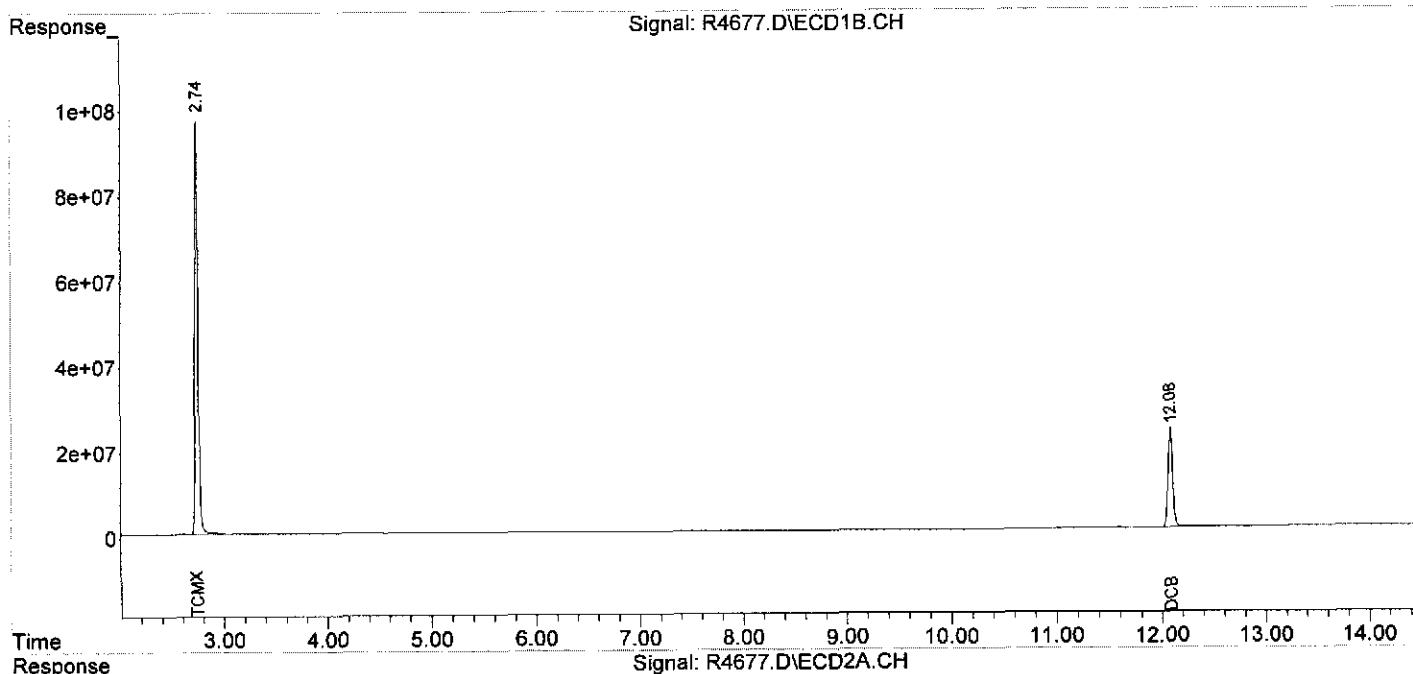
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2004.7E6	4014.2E6	171.362	182.263
Spiked Amount	200.000			Recovery	= 85.68%	91.13%
2) S DCB	12.08	11.94	721.9E6	1434.2E6	193.279	221.180
Spiked Amount	200.000			Recovery	= 96.64%	110.59%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-08-13\
Data File : R4677.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 08 Oct 2013 13:06
Operator : NG
Sample : FB-14,09604-010,A,1000ml,100,10/07/13,1
Misc : 131007-20,09/30/13,09/30/13,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 08 13:46:57 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: BLKA130923-16

Client ID: PCB

Date Received: NA

Date Extracted: 09/23/2013

Date Analyzed: 09/24/2013

Data file: R4385.D

GC Column: DB-5/DB1701P
Sample wt/vol: 1000ml
Matrix-Units: Aqueous- μ g/L (ppb)
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\09-24-13\
 Data File : R4385.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 24 Sep 2013 16:40
 Operator : JS
 Sample : PCB, BLKA130923-16,A,1000ml,100,09/23/13,1
 Misc : NA,NA,NA,1
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 25 09:43:16 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M
 Quant Title :
 QLast Update : Mon Sep 23 13:00:17 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2214.1E6	3946.5E6	157.797	196.852
Spiked Amount	200.000			Recovery	= 78.90%	98.43%
2) S DCB	12.09	11.95	679.2E6	1005.7E6	196.886	215.357
Spiked Amount	200.000			Recovery	= 98.44%	107.68%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

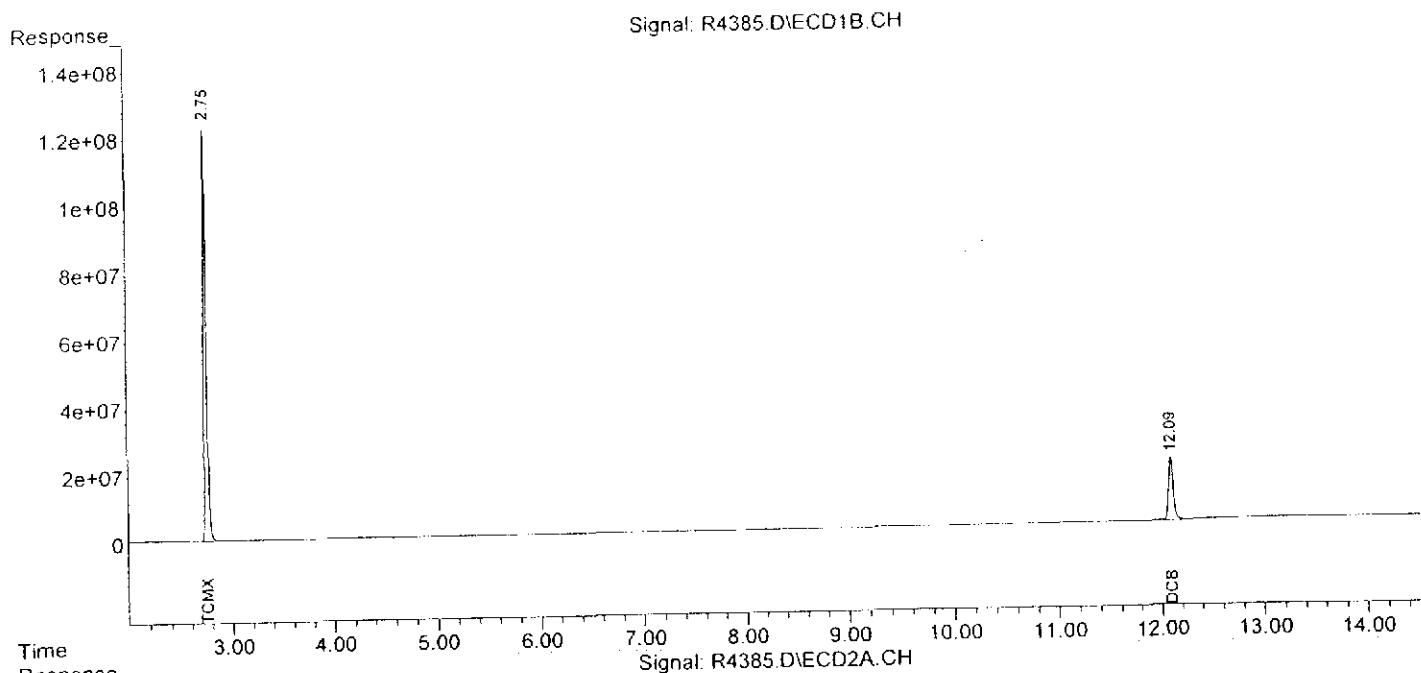
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\09-24-13\
Data File : R4385.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 24 Sep 2013 16:40
Operator : JS
Sample : PCB, BLKA130923-16,A,1000ml,100,09/23/13,1
Misc : NA,NA,NA,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 25 09:43:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0830.M
Quant Title :
QLast Update : Mon Sep 23 13:00:17 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: BLKA131007-20

Client ID: PCB

Date Received: NA

Date Extracted: 10/07/2013

Date Analyzed: 10/08/2013

Data file: R4675.D

GC Column: DB-5/DB1701P
Sample wt/vol: 1000ml
Matrix-Units: Aqueous- μ g/L (ppb)
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & great than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-08-13\
 Data File : R4675.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 08 Oct 2013 12:31
 Operator : NG
 Sample : PCB, BLKA131007-20,A,1000ml,100,10/07/13,1
 Misc : NA,NA,NA,1
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 08 13:04:28 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2096.9E6	4201.1E6	179.238	190.748
Spiked Amount	200.000				Recovery =	89.62% 95.37%
2) S DCB	12.08	11.94	736.3E6	1438.4E6	197.122	221.833
Spiked Amount	200.000				Recovery =	98.56% 110.92%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

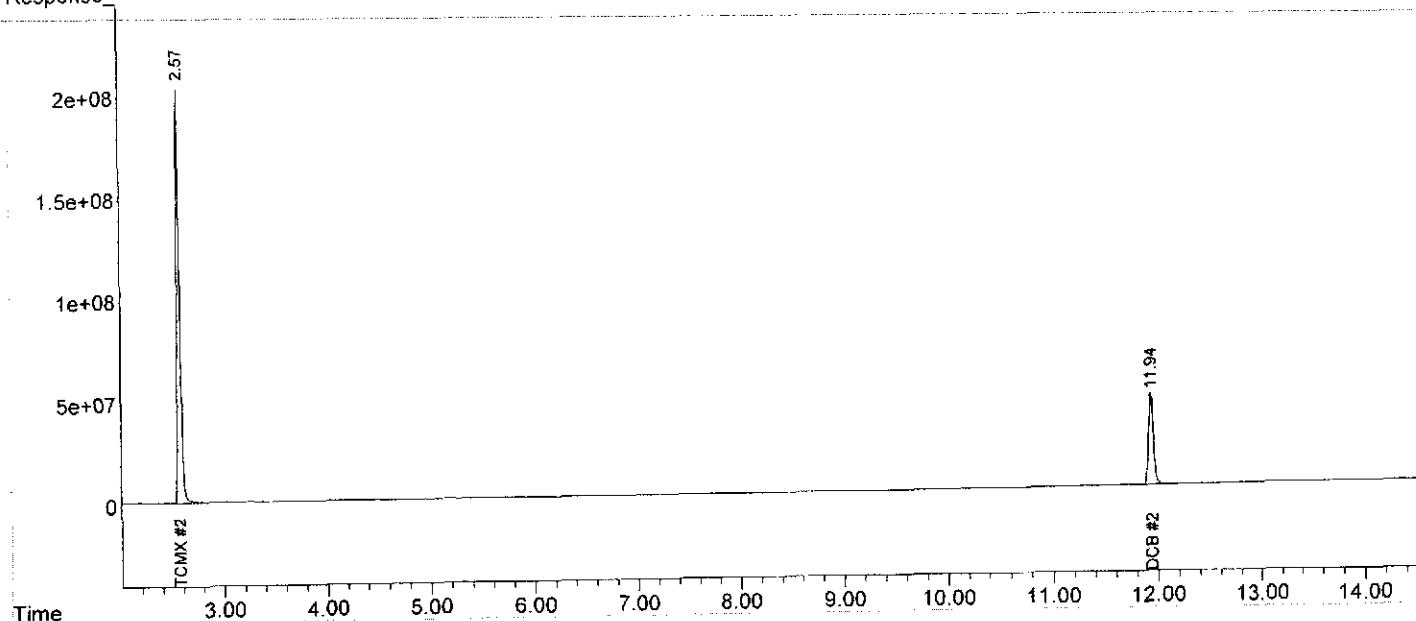
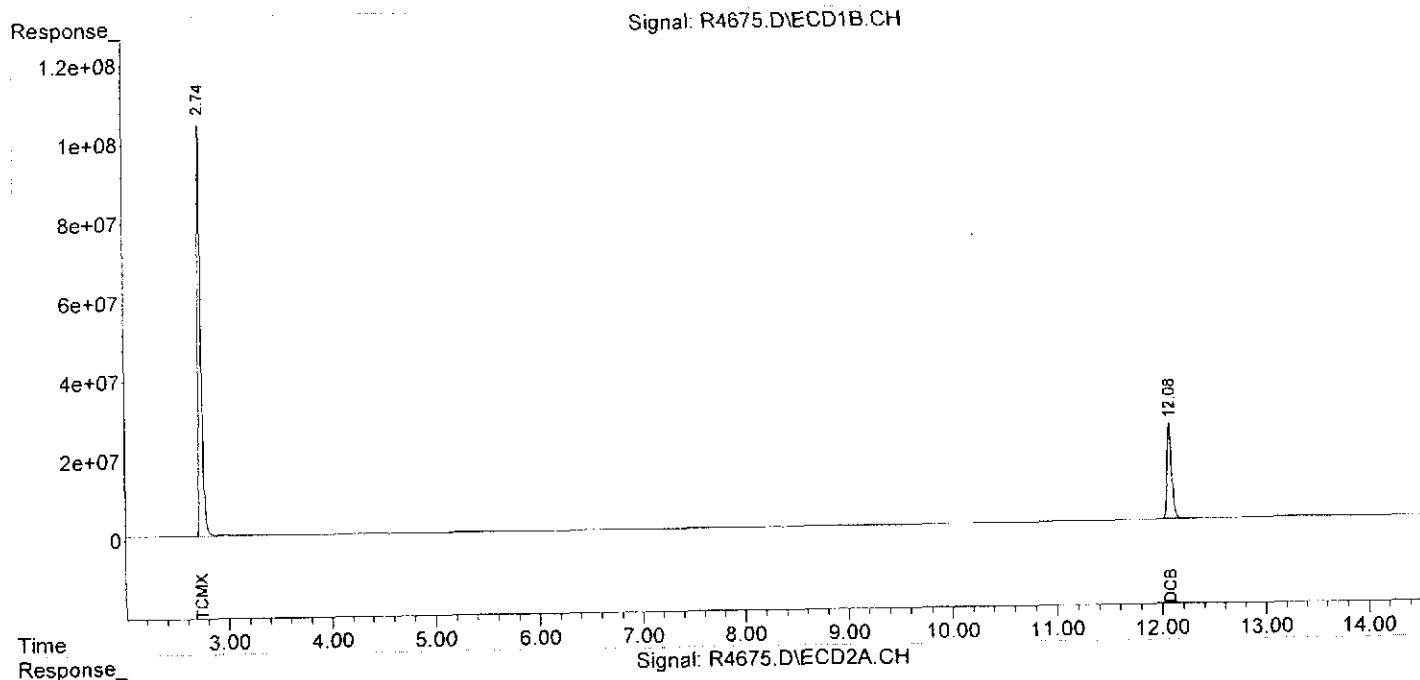
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-08-13\
Data File : R4675.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 08 Oct 2013 12:31
Operator : NG
Sample : PCB, BLKA131007-20, A, 1000ml, 100, 10/07/13, 1
Misc : NA, NA, NA, 1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 08 13:04:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: BLKS131002-07

Client ID: PCB

Date Received: NA

Date Extracted: 10/02/2013

Date Analyzed: 10/02/2013

Data file: Y1967.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5.00g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 1

% Moisture: NA

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : Y1967.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 02 Oct 2013 22:28
 Operator : NG
 Sample : PCB.BLKS131002-07.S, 5.00g, 0.10/02/13, 4
 Misc : NA,NA,NA,1
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 15:47:26 2013
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
 Quant Title :
 QLast Update : Mon Sep 30 10:08:11 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3487.1E6	7190.8E6	188.876	195.805
Spiked Amount	200.000			Recovery =	94.44%	97.90%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260		-0-	-0-	N.D.	N.D.	
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

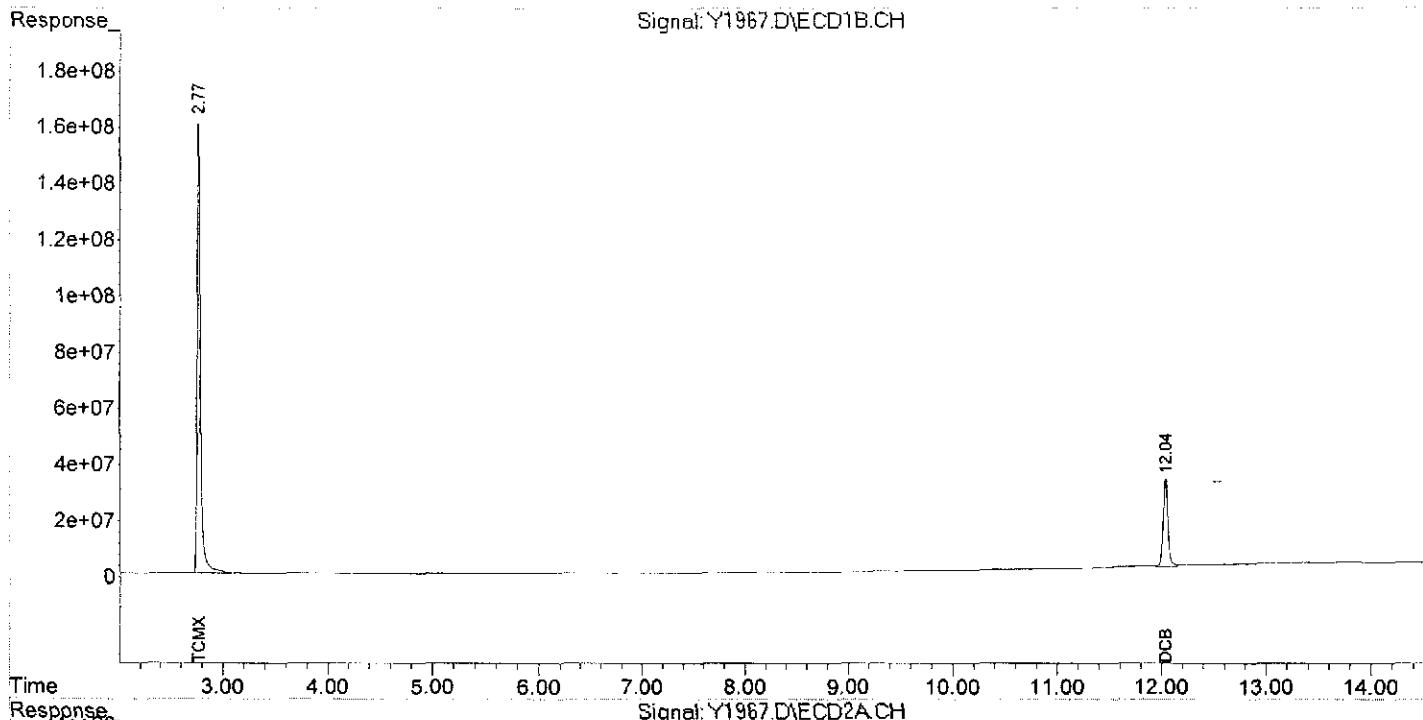
E13-09604 0105

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : Y1967.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 22:28
Operator : NG
Sample : PCB, BLKS131002-07.S, 5.00g, 0.10/02/13, 4
Misc : NA,NA,NA,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 15:47:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M
Quant Title :
QLast Update : Mon Sep 30 10:08:11 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: BLKS131002-09
Client ID: PCB
Date Received: NA
Date Extracted: 10/02/2013
Date Analyzed: 10/02/2013
Data file: R4557.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.00g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: NA

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
 Data File : R4557.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 02 Oct 2013 17:42
 Operator : NG
 Sample : PCB,BLKS131002-09,S,5.00g,0,10/02/13,4
 Misc : NA,NA,NA,1
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Oct 04 12:37:17 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
 Quant Title :
 QLast Update : Wed Sep 25 15:09:16 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2349.6E6	4448.8E6	200.844	201.997
Spiked Amount	200.000			Recovery	= 100.42%	101.00%
2) S DCB	12.09	11.94	957.3E6	1363.3E6	256.295	210.251
Spiked Amount	200.000			Recovery	= 128.15%	105.13%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

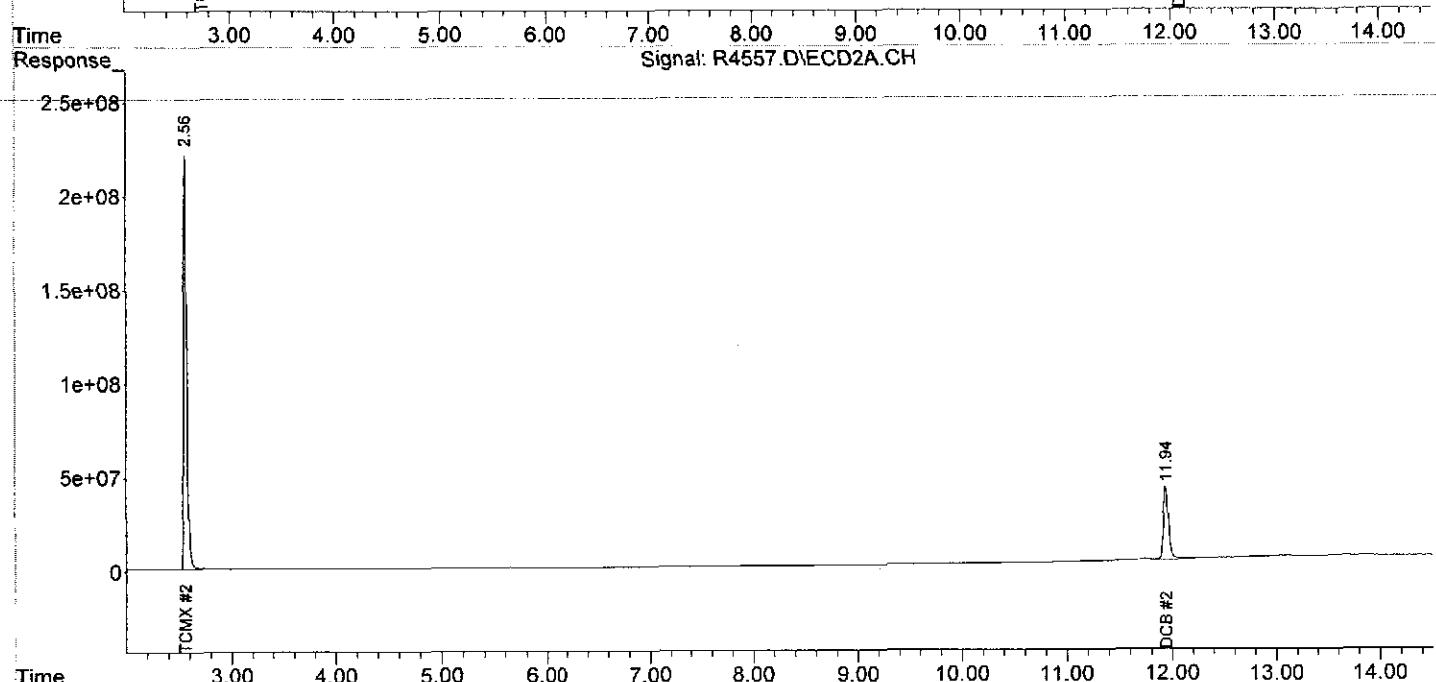
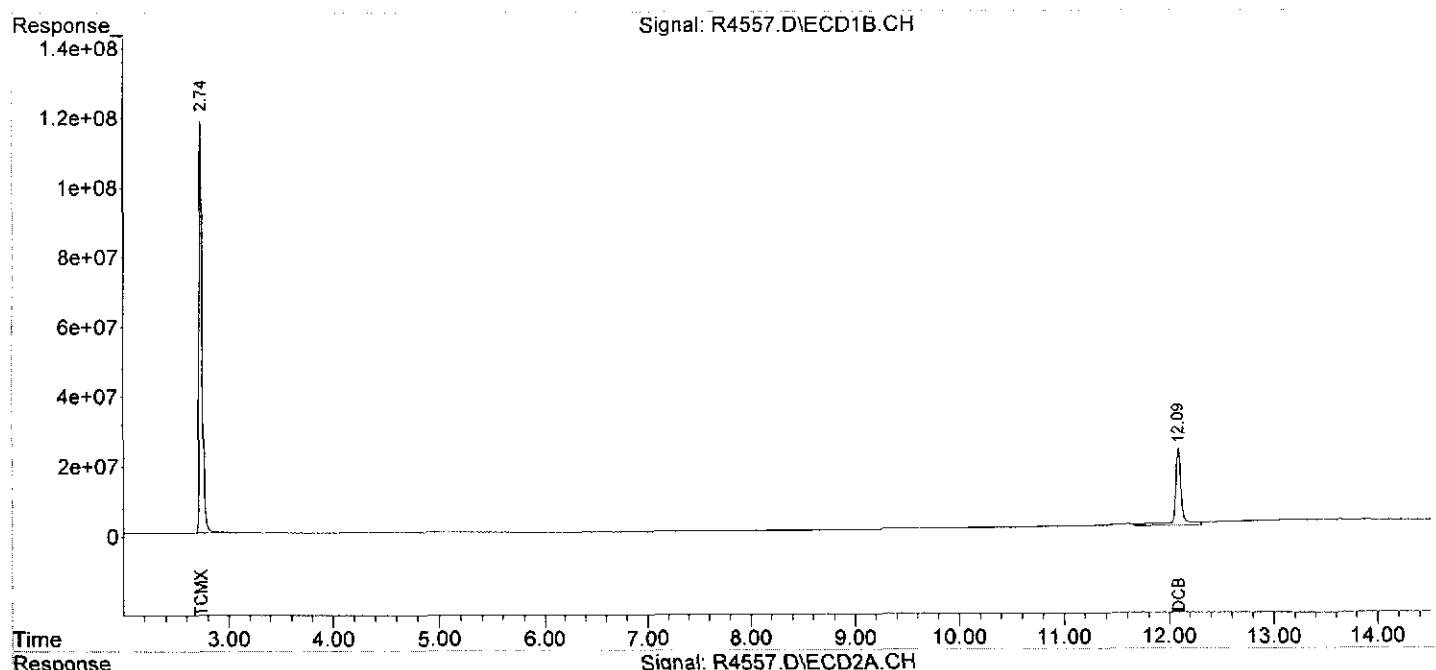
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\10-02-13\
Data File : R4557.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 02 Oct 2013 17:42
Operator : NG
Sample : PCB, BLKS131002-09,S,5.00g,0,10/02/13,4
Misc : NA,NA,NA,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Oct 04 12:37:17 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M
Quant Title :
QLast Update : Wed Sep 25 15:09:16 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



SAMPLE TRACKING

E13-09604 0110



Integrated Analytical Labs
273 Franklin Rd
Randolph, NJ 07869

Contact Us: 973 361-4252
fax: 973 989-5288
Web: www.ialonline.com

CUSTOMER INFO		REPORTING INFO		Turnaround Time (starts the following day if samples rec'd at lab > 5PM)																	
Company: JMC Environmental Consultants, Inc.	REPORT TO:	James Clabby		*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE																	
Address: 2109 Bridge Ave., Bldg. B	Address:	same																			
Point Pleasant, NJ 08742																					
Telephone #: (732) 295-2144	Attn:																				
Fax #: (732) 295-2150	FAX #	(732) 295-2150																			
Project Manager: James Clabby	INVOICE TO:	Aceto Corp.																			
EMAIL Address: jclabby@jmceenvironmental.com	Address:	4 Tri Harbor Court																			
Sampler: Steve Kosch, Chris Cho	Port Washington, NY 11050																				
Project Name: Arsynco	(with copy to: JMC Environmental (attn.: J. Clabby))																				
Project Location (State): NJ	Attn: Ed Kelly																				
Bottle Order #:	PO # 22126																				
Quote #: SR041205																					
SAMPLE INFORMATION				ANALYTICAL PARAMETERS																	
Sample Matrix: DW - Drinking Water AQ - Aqueous WW - Waste Water OI - Oil LIQ - Liquid (Specify) OT - Other (Specify) S - Soil SL - Sludge SOL - Solid W - Wipe				# BOTTLES & PRESERVATIVES																	
Client ID	Depth (ft only)	Sampling Date	Time	Matrix	# containers	IAL #	TCL PCB (8082)									HCl	HNO3	NaOH	H2SO4	NaOH/ZnAc	Sterile
JJ-34R(4.0-5.0)		9/30/13	10:20	S	1	1	x														
JJ-34R(5.0-6.0)			10:21	S	1	2	x														
JJ-33E(6.0-7.0)			11:06	S	1	3	x														
JJ-33R			11:45	S	1	4	x														
GG-37(4.0-5.0)			12:46	S	1	5	x														
HH-36W(4.0-5.0)			1:15	S	1	6	x														
GG-36N(5.0-6.0)			1:45	S	1	7	x														
HH-35(4.0-5.0)			2:07	S	1	8	x														
Known Hazard: Yes or No Describe: Conc. Expected: Low Med High				MDL Req: GWQS (11/05) - SRS - SRS/IGW - SRS Residential - OTHER (SEE COMMENTS)																	

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Carrier (check one): IAL Courier Client Courier FedEx/UPS

Signature/Company	Date	Time	Signature/Company	Date	Time
Relinquished by: <i>Chad</i>	9/30/13	15:00	Received by: <i>IAL</i>	9/30/13	15:00
Relinquished by: <i>Westgate IPAC</i>	9/30/13	16:23	Received by: <i>IAL</i>	9/30/13	16:23
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Comments:

Lab Case #

09604

PAGE: 1 of 2

LAB CO: LS - WHITE & YELLOW; CLIENT COPY - PINK



Integrated Analytical Labs
273 Franklin Rd
Randolph, NJ 07869

Contact Us: 973 361-4252
Fax: 973 989-5288
Web: www.ialonline.com

CUSTOMER INFO		REPORTING INFO		Turnaround Time (starts the following day if samples rec'd at lab > 5PM)															
Company: JMC Environmental Consultants, Inc.	REPORT TO:	James Clabby		*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE															
Address: 2109 Bridge Ave., Bldg. B	Address:	same																	
Point Pleasant, NJ 08742																			
Telephone #: (732) 295-2144	Attn:																		
Fax #: (732) 295-2150	FAX #:	(732) 295-2150																	
Project Manager: James Clabby	INVOICE TO:	Aceto Corp.																	
EMAIL Address: jclabby@jmcevironmental.com	Address:	4 Tri Harbor Court																	
Sampler: Steve Kosch, Chris Cho	Port Washington, NY 11050																		
Project Name: Arsynco	(with copy to: JMC Environmental (attn: J. Clabby))																		
Project Location (State): NJ	Attn: Ed Kelly																		
Bottle Order #:	PO # 22126																		
Quote #: SR041205	Sample Matrix																		
DW - Drinking Water AQ - Aqueous WW - Waste Water OI - Oil LIQ - Liquid (Specify) OT - Other (Specify) S - Soil SL - Sludge SOL - Solid W - Wipe																			
Client ID		Depth (ft only)		Sampling		# container(s)	IAL #	ANALYTICAL PARAMETERS										# BOTTLES & PRESERVATIVES	
				Date	Time			TCL PCB (18082)											
HH-35N(4.0-5.0)		9/30/13	2:40	S	1	9	x									HCl			
FB-14		9/30/13	2:50pm	AQ	2	60	x									HNO3			
							x									MeOH			
							x									H ₂ SO ₄			
							x									NaOH/ZnAc			
							x									Sterile			
Known Hazard: Yes or No		Describe:		Couc. Expected:	Low	Med	High	MDL Req: GWQS (11/05) - SRS - SRS/IGW - SRS Residential - OTHER (SEE COMMENTS)											

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

<input type="checkbox"/> Client (check one):	IAL Courier	Client Courier	FedEx/UPS
Signature/Company			
Rush quashed by:	9/30/13 15:00	Received by:	9/30/13 15:00
Rush quashed by:	9/30/13 16:23	Received by:	9/30/13 16:23
Rush quashed by:		Received by:	
Rush quashed by:		Received by:	
Rush quashed by:		Received by:	

Comments:

Lab Case #

09604

PAGE: 2 of 2

1 COPIES - WHITE & YELLOW; CLIENT COPY - PINK



PROJECT INFORMATION

E13-09604: ARSYNCO

To: Jim Clabby
 JMC Environmental Consultants
 Fax: 1(732) 295-2150
 EMail: jclabby@jmcenvironmental.com; ah

Report To

JMC Environmental Consultants
 2109 Bridge Avenue
 Building B
 Point Pleasant, NJ 08742
 Attn: Jim Clabby

Bill To

JMC Environmental Consultants
 Aceto Corp.
 4 Tri Harbor Court
 Port Washington, NY 11050
 Attn: Mr. Ed Kelly

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	Sep 30, 2013 @ 16:23	NA	Oct 14, 2013	Oct 21, 2013 *

* Any *Conditional or Hold* status will delay final hardcopy report sent date.

Diskette Req. Not Required

**** QC Requirement (must meet):** NJ SRS

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
09604-001	JJ-34R (4.0-5.0)	4/5	09/30/13 @ 10:20	Soil	mg/Kg (ppm)	
09604-002	JJ-34R (5.0-6.0)	5/6	09/30/13 @ 10:21	Soil	mg/Kg (ppm)	
09604-003	JJ-33E (6.0-7.0)	6/7	09/30/13 @ 11:06	Soil	mg/Kg (ppm)	
09604-004	JJ-33R (6.0-7.0)	6/7	09/30/13 @ 11:45	Soil	mg/Kg (ppm)	
09604-005	GG-37 (4.0-5.0)	4/5	09/30/13 @ 12:46	Soil	mg/Kg (ppm)	
09604-006	HH-36W (4.0-5.0)	4/5	09/30/13 @ 13:15	Soil	mg/Kg (ppm)	
09604-007	GG-36N (5.0-6.0)	5/6	09/30/13 @ 13:45	Soil	mg/Kg (ppm)	
09604-008	HH-35 (4.0-5.0)	4/5	09/30/13 @ 14:07	Soil	mg/Kg (ppm)	
09604-009	HH-35N (4.0-5.0)	4/5	09/30/13 @ 14:40	Soil	mg/Kg (ppm)	
09604-010	FB-14	NA	09/30/13 @ 14:50	Aqueous	ug/L (ppb)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
002	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
003	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
004	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
005	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
006	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
007	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
008	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
009	TCL PCB	Analyze	8082A	STD/2 WKS	10/14/2013
010	TCL PCB	Analyze	8082A	STD/2 WKS	10/7/2013



Oct 03, 2013 @ 08:56

PROJECT INFORMATION

E13-09604: ARSYNCO

Project Notes:

REV 1 taken by Mark on 10/03/2013 08:53

PER CHRIS CHO, ID FOR SAMPLE #004 IS JJ-33R (6.0 - 7.0)

273 Franklin Road
Randolph, NJ 07869
Phone: 973 361 4252
Fax: 973 989 5288

Page 2 of 2



IAL is a NELAP New Jersey Accredited Lab (14751) and maintains certification in Connecticut (PHL-0699), New York (11407), Pennsylvania (68-00773) **E13-09604 0114**

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: E 13

09604

CLIENT:

JMC

COOLER TEMPERATURE: 2° - 6°C:

(See Chain of Custody)

Comments

COC: **COMPLETE** / INCOMPLETE

KEY

 = YES/NA = NOVOA received: Encore IGW - Methanol(check one) Terra Core No Preservative Bottles Intact no-Missing Bottles no-Extra Bottles Sufficient Sample Volume no-headspace/bubbles in VOs Labels intact/correct pH Check (exclude VOs)¹ Correct bottles/preservative Sufficient Holding/Prep Time¹ Multiphasic Sample Sample to be Subcontracted Chain of Custody is Clear

¹ All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS: _____

SAMPLE(S) VERIFIED BY: INITIAL DATE 9/30/13CORRECTIVE ACTION REQUIRED: YES (SEE BELOW)NO If COC is NOT clear, **STOP** until you get client to authorize/clarify work.

CLIENT NOTIFIED:

YES Date/ Time: _____ NO

PROJECT CONTACT: _____

SUBCONTRACTED LAB: _____

DATE SHIPPED: _____

ADDITIONAL COMMENTS: _____

VERIFIED/TAKEN BY:

INITIAL DATE 10/1/13

E13-09604

0115
REV 03/2013

Laboratory Custody Chronicle

IAL Case No.

E13-09604

Client JMC Environmental Consultants

Project ARSYNCO

Received On 9/30/2013@16:23

Department: GC

			<u>Prep. Date</u>	<u>Analyst</u>	<u>Analysis Date</u>	<u>Analyst</u>
TCL PCB	09604-001	Soil	10/ 2/13	Archimede	10/ 2/13	Justyna
"	-002	"	10/ 2/13	Archimede	10/ 2/13	Justyna
"	-003	"	10/ 2/13	Archimede	10/ 2/13	Justyna
"	-004	"	10/ 2/13	Archimede	10/ 2/13	Justyna
"	-005	"	10/ 2/13	Archimede	10/ 2/13	Justyna
"	-006	"	10/ 2/13	Archimede	10/ 2/13	Justyna
"	-007	"	10/ 2/13	Archimede	10/ 2/13	Justyna
"	-008	"	10/ 2/13	Archimede	10/ 2/13	Justyna
"	-009	"	10/ 2/13	Archimede	10/ 3/13	Justyna
"	-010	Aqueous	10/ 7/13	Archimede	10/ 8/13	Justyna